

WEEKLY SOUTHERN INDUSTRIAL RAILROAD PORTINANCIAL NEWSPAPER.

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\$4.00 per year.
Single Gopy To Gents.

Baltimore, August 30, 1890.



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No.4.

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Western Block Co.
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Handle Mchry.

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Co.
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Co.

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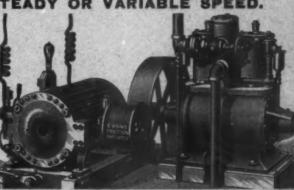


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BALTIMORE, AUGUST 30, 1890.

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Manufacturers' Record.

MANUFACTURERS' RECORD CO.

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BALTIMORE, AUGUST 30, 1890.

THE Boston Post comments on the situation in two sections of the United States as follows:

In striking contrast to the doleful accounts from the West is the hopeful condition of agriculture at the South. While the movement of cotton has only just begun, the planters of that section are gladdened by the assurance of the largest crop ever harvested, and as a result plenty of money and a continuance of the agricultural and industrial development that has made such marvelous progress during the past decade. It is truly an era of prosperity for the South, and just as surely is it a time of great depression for the

Investors in the South need never fear the experience the New England capitalists are now having in the West. The South combines industrial and agricultural advantages, surpassing all other sections in both. With the same New England support the West has had, the pace of Southern development would be enormously accelerated. There is a great field for W. P. Rice's American National Bank and similar institutions in bringing together New England money and Southern investments.

JAMES W. JACKSON, a well-known broker of Augusta, Ga., and organizer of the North Augusta Land Co., writes: "I have been for several years a subscriber to your valuable paper and watch for it each week and read it always carefully. It has done more to help the South than all other agencies combined, and as a man born and raised in the South, I desire to thank you for your great work at a time when we all needed friends."

The South's Railroads in 1900.

During the last ten years the South has built nearly 20,000 miles of new railroad, an increase of about 100 per cent, over 1880, the total mileage for this section at present being over 40,000. Will the same rate of increase continue during the next ten years, and thus give the South over 80,000 miles of railroad in 1000? It is quite possible that it will, and we believe that ten years hence the South will have double its present railroad mileage, as extravagant as such a prediction may seem to

A comparison of the total mileage and the number of square miles per mile of railroad in the West and in the South will prove of interest in this connection, and furnish a basis for some estimates as to what the future will show. Taking the central Western States we have the following:

	Total	No. of square miles
States.	mileage.	per mile of railway
Illinois	9,829.48	5.76
Indiana	6,045 87	6.01
Iowa	8,320.39	6.73
Kansas	8,770 01	9.36
Minnesota	5.340.46	15 60
Ohio	7,797.00	5.27
Wisconsin	5,384.63	10,40
Michigan	6,783.50	8,69
Missonei	F 024 07	27.00

The average for these nine States was 8.8 square miles to the mile of railroad.

In the South we have the fol-

lowing:		
States.	Total mileage.	No of square miles per mile of railway.
Alabama	3.034 57 .	37.22
Arkansas		24.98
Florida	2,282 82	25.71
Georgia	4,094.43	14.52
Kentucky	2,522 06	16 02
Louisana		31 73
Maryland		9 97
Mississippi		20.65
North Carolina		19 68
- South Carolina		14-43
Tennessee	2.576.18	15.71
Texas		31.83
Virginia		15.15
982 4 771 1 1		40.00

The average of these 14 Southern States was 19.8 square miles to the mile of railroad; in other words, the amount of territory to the mile of railroad was just two and a quarter times as great in the South as in these Western States.

No one can possibly give a good reason why the South will not develop a larger traffic, and be able to support a denser population than the Western States which we have named. They are mainly agricultural, or at

least their development has been mainly based on agriculture. The South has greater agricultural resources and can produce more to the acre than these Western States, and the total value of its agricultural products very nearly equals the value of theirs. Ten years hence it will far exceed it. Of timber these Western States are, comparatively speaking, barren, while the South has enormous forests that will supply many millions of tons of freight. As compared with the South, the West has but little coal or iron. The rapid development of the South's coal and iron interests would alone justify the building of a good many thousand miles of new road, because a paying traffic awaits every wisely-constructed road through the mineral regions, and for years to come the volume of traffic will increase more rapidly than the facilities for handling it.

A careful study of the South and the prospects for its development will convince any one that ten years hence it will absolutely need as many miles of road in proportion to area as these nine Western States now enjoy. On this basis it would require over 87,000 miles of road, or 47,000 miles more than it now has. Certainly it seems reasonable then to predict an increase of at least 40,000

The magnitude of the South's development in the next decade is scarcely realized now, and hence to many these figures will look large, but the South doubled its mileage between 1880 and 1890, and we be-lieve it will do it between 1890 and 1900, especially in view of the fact that in every line of industry the progress during the next ten years will far exceed that of the last ten.

WE must thank our esteemed contemporary, the Nashville (N. C.) Argonaut, for the following compli-

Our appreciation of the MANUFACTUR-Our appreciation of the MANUFACTURERS' RECORD will appear from the extent to which we copy from its pages. We regard it the ablest and most valuable exponent of Southern industries published, and the value it has been to the South in making known to the world her vast and rich resources is incalculable. Every man who would keep posted in what is in the South, from the Potomac to the Gulf and from the Atlantic to the Rio Grande should anh. Atlantic to the Rio Grande, should sub-scribe for the Baltimore MANUFACTURERS'

The Census Report on Pig Iron.

The first report to make its appearance from the Division of Manufactures of the census office, is the preliminary report on the production of pig iron during the census year, which has been prepared by Dr. William M. Sweet. So far as the size and significance of the figures are concerned, no more remarkable statistics relating to the iron industry of this country have ever been published. The census year, which embraces the 12 months ended June 30, 1890, was by far the period of greatest activity that has ever been known in the iron trade in this country. It is a matter for congratulation that during this year our country should have outstripped Great Britain in iron-making. Great Britain made 9,321,563 net tons in the calendar year 1889, while our production for the latter half of that year and the six months following was 9,579,779 tons, an excess of 258,216. While no figures of Great Britain's production during the period corresponding to our census year are at present accessible, it is probable that a comparative statement would show an even greater balance in favor of the United States, for it is well-known that since the beginning of the year there has been a great decline in the British iron trade.

The course of the iron trade in this country since January 1 of this year has been even more remarkable in its activity than during the latter half of 1889, when the influence of the boom was being felt in all its force.

The American Iron & Steel Association gives the production of pig iron during the last six months of 1889 as 4,415,084 tons, which leaves 5,164,695 tons of the census total for the first half of 1890, It will be seen from this that the production during the first six months of the present year was 749,611 tons greater than the output during the latter half of 1889. An increase of 17 per cent. in six months is truly an astonishing rate of progress.

The South has good cause for

pride in the figures of her iron production. The struggling industry which twenty years ago produced only 184,540 tons of pig iron, or a little more than one-fifth of what Alabama alone made in the present census year, has increased nearly ten-fold in a score of years, and fully five-fold in the last decade. Look at the significance of these figures:

Alabama and Virginia are most conspicuous in the record of Southern progress in iron making. Virginia leads the country in regard to the proportion of its increase in the production of pig iron, which is 1,589.08 per cent. for the past decade. Alabama comes next with an increase of 1,328.44 per cent. It is of interest to note the progress of these two States during the past eighteen months by half yearly periods. These are the figures:

Alabama, Virginia, Tons. January June, 1889 ... 364,346 ... 112,328 ... 112,328 ... 129,029 January-June, 1890... 463,353 ... 163,419

The complete tables of production which we give elsewhere show more fully the progress of the South and the elements in the advancement of the Southern industry. Viewed as a whole, the iron industry of this country shows a marvelous progress during the past decade, but there is no feature in this progress that is so wonderful as the position of the Southern States. The Southern iron industry has been built up in the face of mightily adverse circumstances. With their years of experience, their long-established industries, an abundance of skillful workers and the nearness of their productive centers to points of consumption, the North and West have had every advantage that could assist or stimulate their growth in iron making. In the South the conditions have been the reverse of these. Save only natural resources of inestimable extent and value, the South had little or nothing with which to build up her iron industry. Money was lacking, skilled labor was not to be had, and even when the industry had reached the point of successful production there was no market for the product nearer than 500 or 600 miles. It is even in the face of such odds that the iron industry of the South has been developed to its present point of strength and prosperity. The puny infant has grown into a sturdy man, who is ready to go forth and take that which is his own with his own strong arms. Already Pennsylvania is crying quit to the iron makers of the South. while the manufacturers of the West stand upon their office steps and see the product of Southern furnaces unloaded in their customers' yards. It has been a long struggle and hardly fought, but the South has won. No fraction of what has been gained will be lost, but to what strength and power the Southern iron industry now has each passing year will add.

The Southward Movement.

The Manufacturers' Record's prediction that the South would absorb the cream of the agricultural immigration within the next few years is to be fulfilled sooner than we were justified in believing it would some months ago. The failure of crops in the West this year accentuates the South's agricultural advantages. Foreign immigration has been massed in the Northwest, and the indications now are that the native farmers will partially abandon that field to the foreigners and cast their lot with the South, where agriculture is uniformly successful, and where diversified development will give the farmer an independent and constantly improving market. It will put the situation as between the South and other sections in a form to be appreciated, to state that the 19,000,000 acres of cotton produce nearly as much value as the the 75,000,000 acres of corn in the United States, and far exceed the value of wheat produced on 38,000,ooo acres.

The existing conditions are pretty well outlined in the following extracts from the weekly market letter of Cordley & Co., the Boston banking firm:

This shortage of crops in the West is increasing popular attention to investments in the South, as a region less liable to such vicissitudes. A large part of the agriculturists driven from Western homes by repeated failures of their harvest is emigrating southward in search of a milder and more uniform climate. From New England, also, we hear of projects of a considerable emigration to the South. * * * We are informed of one New England town where more than half of the population has been supported by labor in mills whose owners are making inquiry as to the terms on which they can transplant the in dustry and the mill hands with their families to Cardiff in Tennessee. As New Englanders ourselves, we see this movement with some sentimental regret, but in candor we must say that this is fully justified, and confess that it is bound to go on The natural disadvantages of New England in geographical position, in climate and soil, and in other material resources. compared with the Southern mineral belt, are as much dead weight as the manufacturers here can carry. The transfer of the manufacture of coarse cotton fabrics from New England to the South, which has been going on for the last 15 years, is an example of the process. The Southern mills now fix the market price of that kind of goods. It does not require the skilled labor to produce them that it does to weave the finer fabrics to which most of the cotton mills in New England have been compelled to shift their machinery for the salvation of their stockholders, abandoning to the South the making of the coarser fabrics. All the simple and coarse kinds of iron manufacture are bound to flee southward from New England, likewise, to localities like Cardiff, where the iron ore, the coal and the limestone in the lands of the Cardiff Coal & Iron Co. are mined within sight of one another and run by gravity power into the mouths of the blast furnaces, and where the mildness of the climate enables work in the open air all the year round. We have at hand a circular of the Cardiff Co., which sums up the situation in a single sentence, saying, "the cost of raw material influences the profits of manufacturers; the one who can obtain it at the

lowest cost is the first to enjoy the benefits of a rising market, and the last to feel the depression of a falling one." This is the key to the southward movement from New England.

The Census Bureau has just published some statistics which show the rapidity of the development of the Southern mineral belt. The iron product of the Southern States in the census year 1880 was 350,436 tons. In the census year 1890 it is 1,780,-909 tons. The annual iron product of the whole country has increased meanwhile from 3,781,021 to 9,579,779 tons. That is to say, the rate of increase in the South during the last ten years has been double that of the North and West, and the Southern proportion is growing larger every day.

A News reporter last night met W. M. Kelley, who represents Carnegie Bros. & Co., of Pittsburgh, Pa., and found him to be well posted as to the cost and value of pig iron at that place, but rather at sea in that respect in this region, as he affirmed that no furnace in the South could make iron as low as \$10.—Chattanooga Evening News.

Mr. Kelley is behind the times. According to Hon. Carroll D. Wright's figures, and these are accepted without question by iron men both North and South, iron can be and is made in the South for \$8.55 per ton, and the average of cost in 18 furnaces is \$10.70 a ton. This includes materials, transportation, labor, officials and clerks, supplies and repairs and taxes.

THE New York Sun rests its pre diction of almost unprecedentedly good times on the increased value of agricultural products. It says:

Assuming that we receive two cents per pound more for our cotton out of the now inevitable 30 per cent. rise in the value of silver, we should thus have \$10 per bale added to the value of the exportable surplus of cotton, and thus the country would receive from Europe \$50,000,000 more than it has received for this staple previously.

The Sun adds another \$50,000,000 for surplus wheat and oil. Whether this calculation is correct or not, there is not the slightest doubt that the South is entering upon its most prosperous era since the war. The farm er, manufacturer, banker, merchant, miner, speculator, laborer and, in fact, every class will share the benefits of this general prosperity.

A DISPATCH from Glasgow, Va., says:

Governor Lee to-day received a communication from the secretary of the British Iron and Steel Institute, which will, in response to an invitation from Andrew Carnegie and others, visit the iron-producing sections of the United States in September and October, saying that it was the desire of a majority of the delegates to go further south than Pittsburgh, instead of going from that point to the Lake Superior ore regions, as had been previously arranged by their entertainers. This would have prevented them from visiting the South at all, owing to the limited time given them. Governor Lee will at once make out a programme for the party and arrange for them to be received at all points along the route from Middlesborough, Ky., to. Glasgow. The visit of this party, among whom are some of the most noted mining engineers and iron experts of Great Britain, will be attended with important results, and their reports on the ore products of the United States will be watched for with interest by the entire iron world.

Southern Shipping Interests.

One of the most important lines of advancement in the South within the next few years will be in shipping and ship-building. With its long seacoast and many fine harbors, and its abundance of iron and timber, the time must come when the South will send its wares to market from Southern ports and in Southern made bottoms. The constantly increasing volume of Southern exports and imports faintly but certainly foreshadows what may reasonably be expected in the future, with friendly national legislation.

A movement aimed at the curtailment of unnecessary charges in transportation and handling, and which, incidentially, will benefit Southern ports, has recently been inaugurated by planters in Georgia and elsewhere, who will make arrangements by which a portion of the cotton which goes to Europe shall be shipped from Southern ports directly to the consumers in Europe. The MANU-FACTURERS' RECORD approves of this movement as good business policy and in the line of the development of Southern resources and the upbuilding of Southern cities. The first concern of the planter is to get the greatest net profit out of his crops. Hence the importance of reaching the market by the shortest haul and reducing the expenses and commissions to the actual needs. It is desirable that these necessary expenses of marketing the Southern crop should be paid, as far as possible, in Southern cities. Thus the contemplated movement will serve the twofold purpose of giving our planters the fullest benefit of the markets and of building up our own commercial centers.

If planters generally co-operate in this movement and it proves successful, and there is no reason why it shouldn't, it will be helpful in establishing the great interests ultimately to be acquired by the South. The passage of the shipping bills now pending in Congress would be another step, and an important one, in the same direction.

THE general sentiment of Northwestern farmers is indicated in the following interview republished from the Chattanooga News. Inability to "sell out" is the only thing that prevents a general exodus to the South, where farming is carried on under more favorable conditions than in any other section of the country:

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Mr. McDonald, formerly of Crouch, Curd & Co., now president of an Indiana bank—There is a general desire among the people North to get into a warmer climate, and many of them would move South if they could sell, but everybody can't sell. There have to be buyers as well as sellers, and the buyers want to come South themselves. If farms could be sold North there would be a general exodus South. This feeling is not confined to Northern States, however. Out West the crop failures of late have caused great dissatisfaction, and the farmers in that country have an eye in this direction.

WONDERFUL PROSPERITY.

Southern Bankers Tell of the South's Bright Prospects.

THE LARGEST COTTON CROP EVER PRODUCED.

Farmers Less in Debt Than in Any Year Since the War.

A YEAR OF JUBILEE.

It would be difficult to exaggerate in telling of the wonderful prosperity which is before the South during the next twelve months. Cotton may no longer be king as in olden times, but as a subject it brings to the South an amount of wealth that is almost beyond comprehension. For five years the cotton crop has been steadily increasing, and each year has shown a gain over the preceding one-a record which no other five-year period can exhibit. In 1886-87 the crop was 6,505,000 bales; in 1887-88 it was 7,046,833; in 1888-89, 6,938,000 bales, but the number of pounds was greater than in the preceding year; in 1889 90 it was about 7,-250,000 bales or over, and the indications point to at least 7,500,000 to 8,000,000 bales this year. Notwithstanding the steady increase in production, the price has advanced from year to year on account of the fact that the world's consumption is fast outgrowing the production. The total farm value of the last four crops, including cotton seed, was about \$1.-500,000,000, and this year's crop, unless some unforeseen disaster should befall it, will reach nearly \$500,000,ooo in value, including the value of the seed, which was a waste product a few years ago. Thus in five years the South will receive for its cotton nearly \$2,000,000,000.

While cotton has been thus adding so enormously to the South's wealth, all other crops have likewise increased. Corn, wheat, oats, tobacco, rice, sugar, grasses, fruits and vegetables have made great gains, and while some of these crops, corn for instance, will this year fall a little short of last year, yet this difference in the corn yield will be more than counterbalanced by higher prices. In fact, the Southern farmers have been most wonderfully blessed during the last five years, and they are now in better financial condition than the farmers of any other section of the country. They enter the new crop year less in debt as a class than at any time since the war. From all over the South the bankers, whose letters we publish to-day, write of the "best outlook for farmers since the war," "the condition of farmers better than ever before," "farmers jubilant over the prospects," and other equally as encouraging words. The people of the South are enthusiastic over their prospects, and everywhere is seen life and activity. Added to the wonderful industrial progress in the South that is revolutionizing the whole country is this unprecedented prosperity of the farmers. The following figures explain the reason of the South's agricultural prosperity:

VIELD OF PRINCIPAL CROPS IN 1887, 1888, 1889, 1890, 1887, 1888, 1889, 1890, Bales. Bales. Bales. Bales. Column 7,017,000 6,938,000 77,250,000 to

Thus in four years the South has produced about 28,600,000 bales of cotton, 2,000,000,000 bushels of corn, 200,000,000 bushels of wheat and 315,000,000 bushels of oats, the total value of these and other agricultural products reaching the enormous aggregate of nearly \$3,500,000,000. With a cotton crop worth nearly \$500,000,000, a corn crop that will yield \$250,000,000, \$75,000,000 of wheat and oats, added to rice, sugar, tobacco, vegetables, &c., the South's agricultural products will this year reach at least \$1,050,000,000, or about \$400,000,000 more than in 1880. With this enormous agricultural wealth added to the hundreds of millions of outside money which have gone South for investment in railroads, in furnaces, in mines, in mills, in mineral and timber lands, in costly hotels, &c., we can readily understand the South's great pros-

The following letters from leading bankers and other business men in the South show how bright are the prospects for business.

WHAT THE BANKERS SAY.

Fine Crops at Reduced Expense.

CHERAW, S. C., August 23, 1890. The general condition of our town and county is as good, if not better, than it has been in many years. The outlook is better beyond doubt than it was at this date last year. The farmers have made crops this year at less expense and are in better financial condition. The crops generally are good. In one-half of our county the cotton crop will average 100, in the remainder 871/2. The crop is ten days or two weeks earlier than usual, and is now being gathered. The corn crop is fair. The early-planted corn is good over entire county, while the late corn is not so good in some sections, owing to local droughts. The oat crop is small, but oats are not planted to a great extent in our county. One or two new corporations have been organized this year for development of resources of county, and capital stock of others increased. A demand for pine timber has recently arisen which will further increase the industrial activity of our people. Having a fine climate adapted to the cultivation of almost every kind of crop, including fruits and vegetables, there is no reason why we should not attract capital and immigration. R. T. CASTON, Prest, Bank of Cheraw.

Unusually Favorable.

DALLAS, TEXAS, August 22, 1890.
We consider the outlook in this section unusually favorable for a good trade in all lines and general prosperity during the fall and winter. While the small grain crop was short, and the corn crop in many sections far below the average, the cotton crop is larger both in yield and acreage than ever before. Our merchants are all hopeful, and nearly all are enlarging their busi-

ness preparatory to handling the heavy fall trade. Our development has been rapid and uninterrupted, and the prospects for a large inflow of Eastern capital and immigration are very flattering.

DALLAS MANUFACTURERS' AID & IMPROVE-MENT Co., D. W. BOWSER, Secy.

All-Around Prosperity. FIRST NATIONAL BANK,

LITTLE ROCK, ARK., August 18, 1890. Owing to short cotton crop in this section last year, money matters have been tight this summer and the demand has been large. The corn crop of the State for the present year will probably not be over one-half the average. The cotton crop, on the whole, is at present promising. Some smaller sections have a poor crop, but the greater portion of the State has a prospect which, if realized, will make financial matters easy in this country next winter. There is no boom in Arkansas, but real estate values enhance every year. Plantation property is coming more and more in demand and being more highly appreciated. City property, whether improved or unimproved, is giving fine returns to the investor. Our manufacturing industries are slowly coming up. Our lumber interests have increased enormously, and bringing a great deal of money into the State. A handle factory just put into operation starts off with a \$10,000 order, and a wagon factory just starting opens with an order for 150 log wagons. Our iron-working and other industrial establishments here are over-crowded with orders. and to sum the whole matter up briefly, I may say that the outlook is a very good one in this section.

J. B. SUTTLER, Asst. Cashier. Enthusiastic Over Bright Prospects.

OFFICE
JACKSONVILLE MINING & MFG, Co,
TREDEGAR (P. O. Jacksonville), ALA.,
August 23, 1890.

The outlook for Tredegar and all the arrounding country is better than ever before. Our farmers have enjoyed prosperous times for some years, this section being noted for its large crops of cotton, corn and grasses, but they are preparing now to gather probably the largest cotton crop ever raised here. If this county is a sample of what the whole South has done, then the cotton crop of 1890 will far exceed even the phenomenal yield of 1889. industrial outlook is very bright. The new cotton-seed oil mill has been completed; the new brick works will be in operation within a few weeks, and in a short time active work will commence on many great enterprises that will inevitably make Tredegar one of the foremost manu facturing towns of the whole South. Our people are enthusiastic over the bright outlook for the fall and winter.

J. W. BURKE, Prest.

Better Than Ever Before. RADFORD, VA., August 19, 1890.

The outlook for a prosperous condition in every line of business in this vicinity is better than ever before.

G. S. BASKERVILLE, Cashier.

A Change for the Better.

AMERICAN NATIONAL BANK,
FORT SMITH, ARK., August 18, 1890. 5

Our prospects here in Western Arkansas
are the best we have had for several years.

E. C. HALLETT, Cashier.

Prosperity in Town and Country.

GAFFNEY CITY LAND & IMF. Co.,
GAFFNEY CITY, S. C. August 19, 1890.

[Compared to the control of the country of the count

Our crop prospects, especially cotton, are very fine, being from ten days to two weeks earlier than last year, and with a good fall, I see no reason why we should not gather an abundant crop. Farmers are less in debt; in fact, many of them have been able to buy their goods this year for cash. The Gaffney City Land & Improvement Co. offers especial inducements to settlers, having purchased 7,000 acres of beautiful lands for agricultural purposes. This land is well adapted to grain and cot-

ton, and a great deal of it is well timbered with pine, oak, hickory, &c. This land lies in and adjacent to the town of Gaffney City, S. C., with a population of 1,631 last census, having increased from 400 since 1880, over 400 per cent. Our school facilities are fine. Our town is contemplating water works, having an abundant supply of limestone and freestone water. Our town is substantially built, having some as good business houses in it as you will find in much larger towns. Our banking facilities are good. The merchants carry large stock of goods, well selected for the wants of the people. A. N. WOOD,

Redeemed by Recent Rains. GALLATIN, TENN., August 20, 1890.

In this, Sumner county, Tenn., had an extra yield of hay; wheat about half crop; corn crop cut short by drouth; farmers actively at work, inspired by recent rains. A large area of second crop potatoes planted, from which good prices are expected. Ours is a good county; land yields good return, and while this has not been a prosperous year, the outlook is much better than 30 days ago.

Thos, H. King.

A Prosperous Season.

JAMES P. ROACH MFG. Co.,
VICKSBURG, MISS., August 19, 1890.

The South, especially the territory adjacent to this city, has prospects of a very prosperous season. The overflow did not injure more than 15 per cent. of the agricultural land in the valley, and the loss of this land being thrown out of cultivation this season has been more than made up by the increased acreage in other parts of the State, especially in the hill country adjacent to our town. While we have no a first-class boom, our city is progressing in a most marvelous manner. I think there are no less than 75 or 80 buildings being erected now, notably two fine hotels, a custom-house and U. S. postoffice, and many handsome residences and fine business stores. In point of health, Vicksburg, I think, is the healthiest place in the United States: there has been but one white death in the city limits in the last 16 days. If you can find a town of this size that can beat this record I would like to know it. JAMES P. ROACH, Prest.

The Situation at Morristown.

Office of Montvue Land Co.,
Morristown, Tenn., August 17, 1890.

Morristown, Tenn., August 17, 1890. 9
The outlook for business at Morristown and in the surrounding section was never more premising. The wheat crop and the fruit crop, owing to a late and severe frost in the spring, an unusual occurrence, are short, but the prices are better than for several years past, and so the balance is nearly even. The grass crop was good, and the corn and tobacco crops are very promising. Fall pastures are excellent, and live stock is in superb condition. The business being done here is far in excess

livery stables, pay good prices at the hotels, and are also looking around for good investments in the thrifty cities in which they stop. On this account Cordele is doing all it can to encourage Northern travel for the winter to this place. Besides the three railroads that Cordele now has, there are two others building here, and before the end of the year 1890 this plucky little city will have five independent lines of railroad.

J. E. D. SHIPP, Prest.

A Splendid Showing.

THE BANK OF CAMDEN, CAMDEN, S. C., August 20, 1890.

The crops in this section are very fine, with the exception of the corn, which will be short, but with the other crops in good shape we can stand that. Our farmers are in good condition financially, and are looking forward to a very large harvest, and with good prices will no doubt be able to lay by some surplus. Our cotton is beginning to come in, which, of course, maketh glad the hearts of our merchants. There is a great deal of improvement going on in

factory progress, and the Plateau City is enjoying a full measure of prosperity.

Inexhaustible Stores of Wealth. FIRST NATIONAL BANK OF GREENEVILLE,

GREENEVILLE, TENN., August 20, 1800. Greeneville, Tenn., is situated in has recently been styled the bright tobacco belt of the South. Three years ago a market for bright tobacco was opened here. and we have now, considering location and soil, the most promising market in the South. The crop this year promises to be very fine. Some of this year's crop has already been cured, and it shows good body, texture and quality. The superior quality of our soil for producing fine, bright tobacco was only discovered about five years ago; since that time our tobacco has taken the highest premiums in all the contests where it has been entered. Our town presents every advantage to those desiring to manufacture or handle tobacco. We have now two large plug factories, two smoking tobacco factories and three large leaf factories. We have three large, commodious warehouses and another in process of erec tion. This section usually produces fine wheat, but this year the crop was almost a failure-not much over a third of a crop and quality poor. Prospects for a good corn crop are very flattering; a fair crop of oats and hay The outlook for this sec tion in the way of the development of the mineral resources is very flattering. No section of the United States presents greater inducements to capitalists than the valley of East Tennessee and the mountains of Western North Carolina. Inexhaustible beds of iron and coal lie contiguous, and all that is necessary to make this the greatest manufacturing center in the country is capital to develop these great resources. We have a very fine quality of marble, the development of which is only in its infancy. We extend a hearty welcome to men of money. We have inexhaustible stores of wealth, but we need the money to open and develp them.

J. E. HACKER, Cashier.

Montgomery and Tributary Territory.

THE COMMERCIAL & INDUSTRIAL

ASSOCIATION.
MONTGOMERY, ALA., Aug. 20, 1890. We are beginning the brightest and best business year perhaps Montgomery has ever known in her history. This is saying a great deal for this city, which is conceded to be by the Louisville & Nashville Railroad Co. the greatest distributing point on its line between Louisville and New Orleans. All crops the past year were unusually fine, the prices remunerative, the picking or gathering season almost perfect, the cost of making and harvesting the lowest for years. The results are that trade has been large and profitable. Old debts of long years of standing were cancelled, farms improved, and more than 14,000 horses and mules distributed from this market, purchased mostly by farmers to work the present crop, which insures larger acreage and better cultivation. The indications now are good for a repetition of last year's fine yield, and con tinued remunerative prices for cotton. As a criterion of the increase of trade and the prospects generally, the largest wholesale dry goods and general merchandise house of this city has increased sales of 30 per cent. for July and 40 per cent. for August over the corresponding months for last year. On the whole the farmers are in better condition, more hopeful, more enterprising, and have more surplus money and mortgages than in any year of the last decade. They have found out that more gold can be dug out of the ground in the cotton belt, with less capital and more certainty and ease, than in the mineral regions or the hills of Nevada. Of course the city of Montgomery feels the impulse of this great agricultural prosperity, but she is not dependent alone on agriculture.

The great yellow pine timber belt lies above and below her, and she is interested in a great number of immense saw mills that convert this valuable and indispensable timber into merchantable products. There is a spirit of industrial enterprise abroad, confidence in home enterprises and property firmly established. Real estate is in active demand, building both for business and dwelling goes steadily on, and are filled as soon as completed. Northern capitalists have invested in several thousand acres of agricultural lands not far from the city, and are settling upon it thrifty immigrants, who are delighted with the results so far obtained. Illinois and Philadelphia capitalists have also bought up large tracts of suburban lands and are awaiting their time for development. Montgomery's already splendid transportation facilities have been supplemented with the addition of the Alabama Midland Railroad connection with the Savanah, Florida & Western System, the branch of the same to Luverne 51 miles long, the Montgomery, Tuskaloosa & Memphis and the Savanah, Americus & Montgomery, the two last to be com pleted within 12 months. Besides this a new line of steamers, with barges, will enter the Alabama river trade, making three lines of steamers on this great river. The railroads projected are the Anniston & Montgomery, which has been surveyed and right of way obtained, and the Gadsden & Montgomery now being surveyed. The item of \$300,000 for opening the Coosa river between Montgomery and Rome, Ga., is reported in the River and Harber bill now before Congress, and when this great work is completed Montgomery's position will be truly imperial-a magnificent and prosperous agricultural region. Unlimited supplies of yellow pine and hardwoods and the matchless sources of the great Coosa valley coal and iron fields will combine to pour into her lap all the requisites to make her commercially and industrially great and populous. M. B. HOUGHTON, Prest.

South Florida Prosperous.

THE KISSIMMEE CITY BANK. KISSIMMEE CITY, OSCEOLA Co., FLA., August 22, 1890.

I am informed that the crop prospects or the St. Cloud plantation were never finer than at present. They have now 435 acres of growing cane, composed of plant and first, second, third and fourth year stubble, the last two named being as fine if not finer than any on the property. They expect to add between 300 and 400 acres more to this in time for next season campaign. The bulk of this will be planted in an adjoining section, which is now being put in order to receive it. Their crop last year yielded 1,445,000 pounds of sugar and 47,000 gallons of molasses, which is considered a remarkably fine result for the number of acres of cane ground. They are still adding various improvements, and expect to have every thing in first-class order when the season of 1890-'91 comes around. Messrs. Cornell & Morgan, of Philadelphia, have recently purchased the Southport farm, and intend to make extensive improvements there this winter. They will plant a considerable acreage in vegetables, as will also Messrs. Lupper Bros., Whitmore Bros., Goblet & Co., (of Charleston, S. C.,) and many others, which renders this an important shipping point and business center. The indications are that the approaching season will be one of the most successful in South Florida. A. E. DROUGHT, Prest.

> Crops Unusually Good, BANK OF THE UNIVERSITY.

ATHENS, GA., August 20, 1890.

My personal observation of the prospects for the year is limited to this immediate The crops of all kinds are unusually good. The yield of corn promises to be unprecedented. Cotton is luxuriant. and if September proves, as it generally is, a dry month, will mature its utmost capacity. A great deal of Bermuda hay is being saved-the best in the world, because it grows everywhere and nothing can kill it. In this locality there has been a decided advance in values of real estate, and the approach of the Georgia, Carolina & Northern Railway has given an impetus to a number of commercial and manufacturing enterprises. A few miles from the line of this road, near here, is one of the finest water-powers in the State, unused because hitherto inaccessible.

A. L. HULL, Cashie

Heavy Business Indicated. BEAUFORT, S. C., Aug. 22, 1890.

The outlook for crops this fall is splendid, and all indications point to a heavy business in the immediate future.

WM. H. KIRKWOOD.

Profitable Farming. JOSEPH STEINER & SONS. BANKERS, GREENVILLE, ALA., Aug. 21, 1890.

We have a flattering prospect for fall and winter trade, owing to fairly good crops of both corn and cotton, an abundant vield of sugar cane and small edibles plentiful. This crop has been made at least 20 per cent. cheaper than the ordinary crop, and demonstrates that with economy our farmers can be the richest and most independent in the world. Lands are very cheap, taxes low and fuel costs nothing comparatively. Small industries of a manufacturing nature are needed, and will bring handsome returns. If our farmers would practice Western economy, Providence and our soil would do the rest.

JOSEPH STEINER & SONS.

General Improvement.

BANK OF LEXINGTON, LEXINGTON, N. C., Aug. 21, 1890.

The prospects for good corn, cotton and tobacco crops are the best we have known in years, and hence the farmers are jubilant and trade is good in consequence. Several tobacco factories will be in operation here in the early spring. We hope soon to provide the large growers in this section a market for their tobacco second to none in the State. Our town and surrounding country is on a general improvement, and is attracting Northern and foreign capital. We know of no better investments than in this part of the State.

GEO. W. MONTCASTLE, Cashier.

Making Money

COMMERCIAL BANK ALBANY, GA., Aug. 20, 1890.

Southwest Georgia is in better condition to-day than at any time since the war. Our farmers are nearer out of debt and more self-sustaining. All those of energy and capacity have made money in last three or four years. Farming and timber lands have more than doubled in value in last two, and bid fair to double again in the next two years. New railroads are being rapidly built through this section. Flint river has been made navigable by the Government to this place, and steamers have been put on the river. Many small industries are starting up, and all of them are prosperous. Many other small industries could be started to advantage. Our own business has more than doubled this year over last with most satisfactory results.

L. E. WELCH, Cashier.

Remarkable Strides.

BANK OF GREENWOOD, GREENWOOD, MISS., Aug. 18, 1890. Our prospects for a splendid cotton crop are very flattering; it is almost assured the stalk is grown and well fruited. Corn crop will be a partial failure, except in spots, where a fair yield will be made. These remarks apply to our county of Leflore. The town of Greenwood has made and is making remarkable strides towards building up a little city on the Yazoo river and making it a distributing point for the surrounding country. She has now two railroads, the Illinois Central

and Georgia Pacific, and in addition has all

year around a navigable stream at her We have two banks with aggregate capital of \$150,000, both to be increased soon; an ice factory, an oil mill, a compress and warehouse, two saw mills, two brick-yards, and the best place in the South for a sash, blind and door factory, also cotton mill. E. R. McShane, Cashier.

An Unward Tendency. THE BUFFUM LOAN & TRUST Co., OCALA, FLA., Aug. 19, 1890.

The present indications show a marked degree of prosperity in our State, and more especially in our immediate vicinity. Real estate prices are good, and have been on the upward tendency for the past five years. The orange and lemon crop will be larger This, coupled with the than expected. recent phosphate discoveries, makes money matters easy. There is good demand for money and good security offered.

C. E. CONNOR, Secy.

Prospects Never Better.

A. D. REYNOLDS,
TOBACCO MANUFACTURER,
BRISTOL, TENN., Aug. 20, 1890.

Our general prospects for a good fall and winter business was never better. With the exception of our wheat, the crops are good; tobacco and corn exceptionally so. Stock of all kinds are doing well, as our grass is looking as well as I ever saw it at this season of the year. General pros-perity seems to pervade this entire section. Merchants pay more promptly and a greater number discount their bills than at any time within my 20 years' experience in this locality. If Bristol has a single house not worthy of credit I do not know the house. Business in every line has increased, not only in Bristol but all over this section which has been largely stimulated by the building of new railroads to reach the coal and iron of this section. The Bristol, Elizabethton & North Carolina Railroad is being pushed rapidly, and by January 1st, 1891, connection will be made with the celebrated Cranberry iron, and in months more the immense deposits of Doe mountain, in Johnson county, will be reached. The furnace already reported is going up rapidly. The Pioneer Steel Co. are grading off the foundation for their large plant, which will be pushed to completion at once. Buildings of every description are in great demand, notwithstanding several hundred have been erected this year. Hotel Fairmount is now under the able management of Mr. August Roder, of Baltimore, and enjoys a crowded house. A. D. REYNOLDS.

A Prosperous Period.

ROOMS OF THE COMMERCIAL & INDUS-TRIAL ASSOCIATION, FARLEY NATIONAL BANK BUILDING, MONTGOMERY, ALA., Aug. 20, 1890.

The general prosperity of this section is greater and the prospect of its continuance more flattering than for a number of years. The past five years have marked a period of industrial activity heretofore unknown in the history of our city, which has ever been almost exclusively a mercantile and not a manufacturing center. Within five years, however, a large number of industries have been established and are in successful operation, and the promise of more is sure to be rapidly fulfilled. The improved financial condition of the farmers of this section is a cause of congratulation to every person in our midst. Heavy mortgages and liens no longer encumber their lands and growing crops, the indebtedness which hampered their operations a few years ago having been, in a large measure, paid off. Their farms are well stocked and equipped, and the present cotton and corn crop, like that of 1889, is now assured to be one of the largest ever produced. The city of Montgomery has had an almost phenomenal growth in business and population in the past decade. Her mercantile and manufacturing interests have increased 424 per cent., her banking capital 520 per cent., and her population nearly 100 per

With the existence of such a state of facts, our prospect for rapid and solid growth is bright indeed. "Progress and prosperity" is the watchword of our city, and she will continue to live up to it.

W. C. BIBB, JR., Secretary.

Crops Very Promising.
HOLLY SPRING, MISS., August 20, 1890.

The crops in this section are very promising at this time. We have no worms of any consequence, and the cotton plant'is in a healthy condition. Our farmers are in better condition than they have been for years. The mortgages are lighter, and many have removed them altogether Much more attention is being paid to stock raising than formerly, and a better grade of stock is sought. We have an unusually good climate. It is not often that failures in crops. reasonable in price, and what we desire is to welcome people from all sections. Liv-We look for a considerable ing is cheap. increase in cotton receipts over last year at this point. Will be glad to give you information at any time.

H. C. FORT, Cashier Bank of Holly Springs. A Good Outlook.

COMMERCIAL NATIONAL BANK, SHREVEPORT, LA., August 19, 1890. The present outlook for our section of country is very encouraging. Our people Their main atare generally prosperous tention is directed to agricultural pursuits. With their advantages of fine soil, which will produce abundantly with proper attention, a failure is an exception. It naturally follows when the planters are prosperous, the legitimate business of the country is healthy. The main product of our country is cotton, and the present prospect of an average crop is good. As yet nothing has transpired to interfere with its growth, and the plant is reported as doing well, and the promise is for a fair yield. It is not, however, too late for very dry or wet weather to do serious damage, but this is not looked for or anticipated. The caterpillars, which are the planters' dread, have not made their appearance, and it is considered too late for them to do any damage. S B. McCutchen, Prest.

Recovering From the Overflow.

BANK OF GREENVILLE, GREENVILLE, MISS , August 18, 1890. Our immediate section, composed of four counties, Bolivar, Washington, Issaqueena and Sharkey, suffered to a considerable extent from the late overflow of April and May. Probably one-sixth of the land in this section was submerged. On the lands that were overflowed there is a prospect of about half a crop. These lands were planted after the water went down, in some instances as late as June 1st. On lands not overflowed there is a fair average crop. Our people are by no means disheartened by the ordeal through which they have passed, and have a strong and abiding faith in the future of our section of country, which, notwithstanding some manifest drawbacks, we consider the finest agricultural country in the United States. To show that our confidence is shared by the outside world, I will say that several large mortgage loans have been negotiated on lands since the overflow left us.

A. S. OLIN, Cashier,

The South's Great Prospects.

Lowe & Tucker.

Brokers and Commission,
Chattanooga, Tenn., August 20, 1890. We can now see no possible contingency that may arise for some distance into the future to prevent the South from tak ing a straight and upward tendency to great prosperity in all kinds of business. Capital is flowing into the South from all directions. The present outlook shows that there will be much greater production of cotton and iron this year than ever before. Corn will be a large crop, with very few local exceptions. Your correspondent fore, and all the timber and mineral lands

is not familiar with tobacco, rice and sugar, but have heard no reports other than that these crops will also be large. The manufacturing concerns have the appearance of being very prosperous, and these in turn open up new fields for other enterprises and investments. While there appears to be a great deal of money coming into the country from England, France and Germany, as well as from the Northern States, yet there is a great scarcity of money, or, in other words, it is commanding a very high premium in financial circles. There are thousands of instances where active men make investments and realize from 10 up to 50 and 100 per cent. profit on them in a very short time, and, of course, under those circumstances they are willing to pay a very high premium for the use of money. We can see no reason for expressing any other opinion than that, for the next three or four years at least, the South will enjoy a much greater degree of prosperity than any other section of the globe.

LOWE & TUCKER.

Good Times Expected.

MILLEDGEVILLE BANKING CO.
MILLEDGEVILLE, GA., August 20, 1890. We are canvassing for stock for a cotton mill, and there is talk of building water works, for which we have excellent natural advantages. We have invested over \$100,-000 in various enterprises in the last two years, all home capital. Our crops are good and our farmers in better condition than they have been for several years. We expect more prosperous times next year

B. T. BETHUNE, Cashier.

Best Since the War.

H. Y DAVIS & Co., BANKERS, CAVE CITY, KY., August 21, 1890.

The outlook for success in all branches of business has not been so flattering since the civil war. Notwithstanding th severe drouth throughout the greater portion of Kentucky, there will be ample raised for home consumption, and we will have in addition the large surplus of breadstuffs left over from last year. The people, alarmed by the drouth, have doubled their energies, being encouraged also by higher prices for all kinds of farm products. They feel that an era of prosperity is just ahead. Tobacco, while a very short crop, will yield a handsome revenue, because of the fact nearly all who grow tobacco have some, and that little, with the greatly increased price, will bring more than a bountiful crop would have brought. The oat crop was shortvery short; but we had an increased yield of hay put up in good, sweet conditio the loss of oat crop is not so severely felt.

H, Y, DAVIS & Co.

Wonderful Activity. GAINESVILLE, GA., August 21, 1800.

The city of Gainesville and the surrounding country is in a very prosperous condition. There are several factories springing up and several more in contemplation. One shoe factory turns out 800 pairs daily and keeps six drummers on the road all the time. One other shoe factory turns out about 200 pairs daily. Several wagon and buggy factories supply this section from this place. One cotton factory, electric lights, water works and an iron foundry are the results of the past few months. A strong syndicate has recently purchased two large hotels with the property adjacent, in all about 4,000 acres of land. One hotel is at White Sulphur Springs, the other at New Holland Springs, just outside of the corporate limits. This syndicate has also purchased the city street-car line and will extend the car line to both hotels and put a dummy engine or electric cars in place of the horse cars. They also prop to lay off considerable property into lots for summer homes, business lots, factory sites, and have an auction sale at some near date. Altogether, Northeast Georgia is in a more prosperous condition than ever be-

as far back as the North Carolina line are being eagerly bought up for manufacturing and mining purposes. We also expect one or two through lines of railroad built in the H. H. DEAN,

Direc, and Att'y for First National Bank.

What Planters Are Doing.

BERNARD LEMANN & BRO. DONALDSONVILLE, LA., Aug. 21, 1890. This part of the Parish of Ascension bordering on the Mississippi river Bayou Lafourche, is entirely devoted to the culture of sugar cane, with corn for own consumption-generally planters have to buy corn and oats, not making enough for their own use. A little quantity of rice is also made. Crop prospects sugar, rice and corn are excellent: cane is much better than last year, and probably larger than ever seen at same time of year. Pros pects for improvements in machinery, &c. in sugar houses is very good. We are now building about 31/2 miles of 24-inch gauge railroad to convey cane to sugar-house Last year we built about 4 miles. We think most large planters will gradually build such railroads.

BERNARD LEMANN & BRO.

Farmers Prospering.

THE DEPOSIT BANK OF GLASGOW, GLASGOW, KY., August 20, 1890.

In all matters pertaining to the material prosperity of our county there is evidence of increased wealth. The drouth has by recent rains been nearly discounted. yield of corn and tobacco will be greatly beyond expectation. The farmers generally are prospering. The indications for largely increasing industrial activity are very good. The yield of oil and the develment of this field are progressing slowly We need manufacturers of all but surely. kinds. Bank deposits are largely increased. J. RITTER, Cashier.

The Best Position for Prosperity. THE FIRST NATIONAL BANK, ASHEVILLE, N. C., August 21, 1890.

o far as we can judge, the South is in a better position for general prosperity than any other section. Its cotton crop promises to be the largest on record, and prices are good, while tobacco, corn, rice and sugar will probably show good yields. In the North and West crops have been very small, and the farmers are much discour-With good crops and activity aged. industrial matters, the South ought to be the center of attraction for the investment of Northern and foreign capital this winter. Just in our immediate vicinity the prospects are good; tobacco promises well corn only fairly good; hay good. Building and the purchase of desirable real estate lots by newcomers all indicate pros-WM. E. BREESEE, Prest. perity.

Farmers Out of Debt, MERCHANTS & FARMERS' BANK

MACON, MISS., August 18, 1890. I have made repeated inquiries from time to time of our most intelligent planters in regard to our present crop, and while we of course find some exceptions, taken all in all it will be a bonanza. We have received our first bale of cotton, and therefore can speak with comparative safety. We anticipate active business in all lines of trade. Our land values are steadily increasing, and indeed everything points to a new era. We have a large number of Western farmers in this county and with their testimony that the prairie lands of this section of the State are just as productive as those of the West, and can be had at about one-quarter of the cost of the latter, we are sure of a better and more thrifty class of farmer labor, and with this we will find our wealth will double itself in the next ten years. At the present value of our land it pays 25 per cent, to the investor when rented. We have no manufacturing enterprises to speak of. A large cotton mill would pay handsomely. Our farmers are comparatively out of debt.

R. W. JONES, JR., Cashier,

Large Trade Expected W. C. & L. LANIER, BANKERS AND MANUFACTURERS, WEST POINT, GA., Aug. 20, 1890.

Our farmers have enjoyed equally as favorable conditions this year as last, and last season was more favorable than any for several past years. Prospects are good for a large yield of cotton and a fair corn crop, and the financial condition of our farmers is better than ever before. consequence of the revolution in trade resulting from the diversity of our crops, and great increase in the production of grain, the volume of business with our merchants is not so great, but it is much more satisfactory. This is the home of industries representing nearly \$1,000,000, and we are pleased to say they have generally been successful and prospects are very encouraging. Our merchants expect a large trade this season.

W. C. & L. LANIER. On the High Road to Prosperity.

THE BANK OF CORDELE, CORDELE, GA., August 21, 1890.

Southwest Georgia was never on a better road to prosperity than now seems propitious, and capital is coming in purchasing our timbered lands and mannfacturing them into lumber at a very rapid rate. In and around Cordele there are 187 saw mills, and the great ocean of pine timber looks like as though it were as yet untouched. These saw mills lately erected have a much greater capacity than the old saw mills. A great many Northern people have lately settled this section, and have been much pleased at the result of their investments, and as a consequence a great many of their friends are coming to this section also to help share its benefits. The city of Cordele was laid out in an old field 15 months ago and now has a population of 2,000 people, with a \$100,000 cotton factory, \$100,000 guano factory, \$100,000 bank, one national building and loan association, two local building and loan associations, large shoe factory, ice factory, any number of planing mills, variety works, machine shops and one large iron foundry. The city doubles its growth every six months. The resources of Cordele are beginning to be advertised and appreciated, and such papers as the MANUFACTURERS' RECORD are doing more to build up the South than every other influence combined. Cotton has commenced to come in rapidly, and the cheerful faces of the farmers, as they are paying up their year's indebtedness, show that they are doing well. Crops were never better A new \$50,000 hotel is now being erected and will be finished by October 20. It will be made a great winter resort for Northern travel, and the proprietor will cater for this trade. Our people realize the fact that Northern travel is worth more to a town than anything else, inasmuch they are generally people of wealth and refinement, patronize well our livery stables, pay good prices at the hotels, and are also looking around for good investments in the thrifty cities in which they stop. On this account Cordele is doing all it can to encourage Northern travel for the winter to this place. Besides the three railroads that Cordele now has, there are two others building here, and before the end of the year 1890 this plucky little city will have five independent lines of railroad

I. E. D. SHIPP, Prest.

A Splendid Showing.

THE BANK OF CAMDEN, CAMDEN, S. C., August 20, 1890. The crops in this section are very fine with the exception of the corn, which will e short, but with the other crops in good shape we can stand that. Our farmers are in good condition financially, and are looking forward to a very large harvest, and with good prices will no doubt be able to lay by some surplus. Our cotton is beginning to come in, which, of course, maketh glad the hearts of our merchants. There is a great deal of improvement going on in our town, such as building and repairing, which gives it a busy appearance. I regret not being able to report any new enterprises, but with present outlook it won't be long before I will, no doubt. The old enterprises are paying fine dividends. I am glad to say that this institution has just completed its second year's business, showing a net per cent. of 19.92 for the last year's business. The business prospect is so fine that it has encouraged our merchants to purchase large stocks of goods, and we learn that there are several new firms which will open business on C. H. YATES, Cashier.

Gradual Improvement.

MEMPHIS, TENN., August 21, 1890. Everything in this section appears to be The cotton crop not being yet quite matured, it would be very difficult to say what condition the farmers are in resulting from this year's business, though a gradual improvement for some time past is to be noted. BANK OF COMMERCE.

Excellent Financial Condition.

MERCHANTS & PLANTERS' BANK, CARROLLTON, GA., August 21, 1890. This county will produce about a 90 pe cent. crop, and the prospects are the best ever known. The farmers owe very little, and are in a prosperous condition. Very few negroes in this county and the planters do most of their own work, and 95 per cent. of them are good for their debts have just had a talk with Mr. A. D. Harman, a very prosperous farmer here, and he says that this county is in a better financial condition than at any time since the war. HENRY LANIER Cashier.

> Finest Crop Ever Known. FIRST NATIONAL BANK

ROME, GA., August 21, 1890. The rapid march of progress in this section seemed unreasonable to my conserva-

tive views, but I am forced to join the pro-The people are confident; bright smiles of contentment hang on every face. The finest cotton crop that ever ripened for the harvest in North Georgia it with us, and the people, having learned economy and self dependence in "the hard times' that are past, are nearing out of debt, and this crop will leave them with a surplus. Brown and red iron ores are being mined in abundance all over this country, and find ready cash market. The furnace at Rome is nearing completion, and is a handsome affair of the most modern type. Rome is constantly improving in the number and style of her buildings, and with an extremely healthy location, low death rate, all the conveniences of modern timeswater works, gas works, electric lights. street railroads-she goes on to prosperity and usefulness. Rome once depended on the cotton crop for her existence; now it is only one element of her prosperity. The iron mining and industries and her manufactu:ing enterprises share with cotton her glory. JNO. H. REYNOLDS, Prest.

Well Rounded Progress.

CAPITAL STATE BANK, IACKSON, MISS., Aug 18, 1890. There has never been a time in the post bellum history of Mississippi when her prospects were so bright as now. The trial of diversified crops and industries has opened the eyes of our people to the possibilities of a State blessed with such a soil and such a climate. Manufactories of various kinds are building all over the State, and all seem to prosper as soon as started. And especially prosperous are those for the manufacture of our staple cotton, and of the pine and hardwoods in which our State abounds. Truck farming also now is a well developed pursuit, and Mississippi takes a prominent place in supplying the North, East and West with early vegetables. And in this connection it is proper to say that we are now using tons of fertilizers where only pounds were used a few years ago, so that the hill counties are competing with the river district

in the production of cotton. And the river district, known as "the Delta," emerging from the flood of the highest water ever known in the Mississippi river, shows now a crop of corn and cotton unequaled in the world. This brings renewed assurance to those who feared the floods of the "Father of Waters;" they now know that, even under the most ad verse circumstances, they have the finest most productive and most profitable farm ing lands under the sun.

B. W. GRIFFITH, Cashier,

Big Acreage and Fine Crops. FIRST NATIONAL BANK, TALLADEGA, ALA., August 21, 1890.

The cotton crop at this season of the ear was never so promising; acreage is larger, and the farmers have given unusual attention to its cultivation. Corn crop is very good. The farmers are in a much better financial condition than they have been since the war. The taxable property of this county, as shown by the tax returns are \$800,000 more than they were a year ago The values of farming lands have greatly increased, but are still cheap as compared with lands in the Northwest. Our lands are worth from \$3 to \$25 per acre. The Southern people fully appreciate what your paper has done and is doing for the upbuilding of the South.

T. S. PLOWMAN, Prest.

Looking Up.

BANK OF ALEXANDRIA, ALEXANDRIA, TENN., August 22, 1890.

The wheat crop in this locality was nearly a failure. The recent rains have revived the corn crop and business is look ing up some. I learn a charter for the Brush Creek Iron & Mining Co. has been filed, also the Alexandria Manufacturing Co., wookworkers. The Nashville & Knox ville Railway will reach the Cumberland coal fields 40 miles east of this place in a short time. A new survey is being made from Lebanon up the Cumberland for a new J. F. Roy, Cashier.

Opportunity for Northern Farmers TRENTON, TENN., August 15, 1890.

Prospects for a crop good in our county (Gibson). This is an agricultural county with plenty of good land that can be bought from \$10 to \$20 per acre. raise cotton, wheat, corn, oats, &c. Small fruits also a paying crop here. Strawberries, tomatoes, beans, peas, &c., grow finely, and net the growers a handsome profit when well attended to. Some parties clear from \$100 to \$200 per acre on strawberries What we need is a good class of farmers from the North with industry and pushmen who know how to improve the farming lands and make them richer every year. Clover and the grasses grow luxuriantly here, hence stock of all kinds can be J. E. CARCHEL raised cheaply here.

Cashier Exchange Bank

Extra Good.

FIRST NATIONAL BANK, JOHNSON CITY, TENN., Aug. 23, 1890. Business in our section extra good. Pros-I. E. CRANDELL. Prest. pects good.

Brilliant Outlook.

THE FIRST NATIONAL BANK, FLORENCE, ALA., Aug. 22, 1890.

For this immediate section there never was a more brilliant outlook. While our industrial pulse steadily improves, we confidently expect immense activity in the same line the coming fall and winter. Without serious set-back, our cotton crop will exceed the largest on record, and corn, tobacco, etc., will undoubtedly show fair The general sentiment among our merchants is that owing to the small crops of last year, they being compelled to carry the farmer, financially, in consequence thereof, and present indications for the future, their trade will even exceed their expectations. On account of the wonderful developments and marvelous permanent improvements now in progress in the South, there is a great demand for

money, without adequate supply, thereby necessarily making money scarce and rates high. However, when Northern capitalists more fully appreciate these facts, also the basis of security in addition, it will not be long ere relief is at hand. I predict an overwhelming stride for the South within FIRST NATIONAL BANK. 12 months.

Prospects Favorable.

WINCHESTER, TENN., August 23, 1890 The wheat crop was almost a total failure in this section. The oat crop was also quite light. Hay was saved in unusually large quantities and of a good quality. Although the drouth injured the early corn, the late rains have very much improved the late crop, and there will be an average yield. Vegetables of all kinds are plentiful and the fine pastures have improved the stock very materially. Although the prospects are favorable in this county, Winchester, the county seat of Franklin county, has never experienced a real boom, but a steady, solid growth is going on all the time. A new and handsome courthouse has just been completed. A new \$15,000 hotel was opened here this summer by J. F. Miller, a hotel man of large acquaintance over the South. A new depot was built last spring here by the N. & C. & St. Louis Railroad. A \$6,000 addition is being built to the Winchester Normal School. This school enrolled over 400 last summer and is quite properous. An electric-light plant is now being located here, besides many other improvements. The outlook seems quite favorable for a steady progress.

G. G. PHILLIPS. Cashier Bank of Winchester. Very Encouraging.

THE BANK OF MADISON. JACKSON, TENN., August 21, 1890. Indications for fall and winter business are very encouraging, and the great strides made in development and cultivation of our contiguous lands, as well as the wonderful progress made in our city improvements here, bid fair to make Jackson one of the most advantageous cities in Tennessee for investments. All crops promise

> JNO. W. THEUS, Cashier. In a Good Condition.

CRYSTAL SPRINGS, MISS., August 19, 1890.

well, and our farmers are very hopeful.

The prospects for a cotton crop at this point, although smartly reduced in the last two weeks, is still now better than last by, say, 3 to 5 per cent. The financial condition of the farming classes is improved. Crop of corn is below last year. The commercial class is generally in good financial condition and the outlook good for collections. Some new machinery is being brought in, as mowing machines, one harvester and binder, one or two steam engines. Outlook is healthy.

V. L. TERRELL.

Best Crop Since 1882. ATHENS, TEXAS, August 20, 1890.

From present indications the cotton crop through this section will be the biggest since 1882 Our corn crop is not what we would like to have had it, still we think we will have enough to supply the wants of the county. Our fire-brick and tile factories are running day and night and are still behind on shipments. We expect a fine trade this season.

MURCHISON & WOFFORD.

Outlook Never Brighter. THE ABILENE NATIONAL BANK, ABILENE, TEXAS, August 19, 1890.

The outlook for this section of the great empire has never been brighter. The cotton crop is fully 100 per cent. larger than last year. The small grain crop has been equal to the average. Prospectors from all over the State are arriving and casting their lots with us. Two new three-story hotels and 21 brick business houses are now under way of completion. Abilene has well merited this improvement. The future certainly is very grand.

J. G. LOWDON, Cashier.

Growth of a Year.

RESIDENT AGENT PHENIX INSURANCE CO. OF BROOKLYN, WASHINGTON, GA., Aug. 21, 1890. Washington is a beautiful little city of 3,000 people, situated 75 miles north of Augusta, Ga., 131 miles east of Atlanta, Ga., and 25 miles east of the Savannah river. It is the county seat of Wilkes county, which contains 450 square miles of fine farming lands, the lands being pretty evenly divided between sandy and mulatto lands. About 20,000 bales of cotton will be produced in the county this year, and a sufficiency of corn and oats. The town of Washington contains a fine class of merchants. We do a large business in this and adjoining counties. large cotton warehouse was erected here last fall by a stock company, capacity 6,000 bales, and is said to be a finer warehouse than is between this place and New Orleans. A \$50,000 cotton-seed oil mill and guano factory is now nearing completion, and an electric-light plant is being erected by a stock company. A mile of street railroad is now in running order, and a nice brick machine shop and planing mill has been erected this year; also a \$15,000 cotton compress has just been finished, and is ready for the coming crop. We have a fine State bank, organized last year with \$62,000 paid in, which declared an 8 per cent. dividend first year, and this vear its business has increased 50 per cent. It carries a line of deposits from \$60,000 to \$100,000. Quite a number of fine dwellings are going up. As one year ago we had no banks, no warehouse, no cotton-seed oil mill and guano factory, no street railroad, no machine shops and planing mills and no electric-light plant, it will be clearly seen that a good deal of activity has been hown during the past twelve months. Our place is as solid as a rock-bed, and is pushing steadily ahead in all industries. are a God-favored people, having a fine climate, fine water and, best of all, a fine class of people, both white and colored. and no stranger has ever come within our gates but that was loath to leave us.

BOYCE FICKLEN,

Financial Outlook Good. FARMERS' NANIONAL BANK OF SALEM, SALEM, VA., Aug. 21, 1890.

The prospects of this section are very good; the crops that have been and will be harvested are fully up to the average, while the indications for the development of the iron interest and other industrial pursuits are better than ever before. Capital is flowing in from the Northern States. We have in consequence an advancing real estate market, both for mineral lands and other purposes. We consider the financial outlook for this fall and coming season good. The prospects of our town never were brighter; it is being rapidly built up and developed.

J. A. CHALMERS, Prest.

Increase in Agriculture and Banking. Bank of Carrollton, Carrollton, Miss., August 19, 1890.

The commercial and agricultural outlook for this section is better than it has been for years. Crop prospects are good, and as this is essentially an agricultural country, of course we look for an increase of circu lation when the growing crop is gathered. We have an increase in the banking business that is almost phenomenal, and the masses, heretofore in ignorance of this branch of financial commerce, are becoming more and more educated, and are making larger and more frequent deposits. Two years ago we had not as many banks in this State by fully 20 per cent. as we have at present. Our State papers bring the news of banks just established and to be established in the near future all over Mississippi. This is a good indication, as the more banks the more general the prosperity, as they are the medium through which money is kept in circulation. The timber interest, too, is looking up in Eastern Mississippi. The farmers in this section are in better spirits since the alliance movement than they have been for years. J. M. Jones, Ass't Cashier.

Improving Condition.

FIRST NATIONAL BANK, WEST POINT, MISS., August 19, 1890.
This section was visited last year by cotton worms about a month earlier than this date. Their ravages were general, and the yield turned out less than two-thirds of the usual crop, whilst the country produced the largest ever known. Notwithstanding this disadvantage we have had no important failures. The present corn crop is not a good one, while the promise of cotton is above the average, and no disaster threatens. The condition of the farmers is not good, but full prices for cotton will mate-

Storage Houses Not Large Enough.
THE BANK OF OXFORD,
OXFORD, N. C., August 20, 1890.

rially improve it.

P. B. DUGAN, Prest.

The crops in this section are better than they have been for many years, and our farmers are very jubilant over the success. The tobacco crop, taking in all grades, is better, and will pan out more money than it has in a long time. Our buyers say their present storage-houses are not near large enough, and they are building more houses now. The farmers are building a large warehouse for sale of leaf tobacco which will cost \$20,000. There is more building going on in Oxford now than there ever was before. We want more carpenters, and find it hard to supply the demand. The Oxford Land, Improvement & Manufacturing Co. is a grand success and offers special inducements to Northern capital. Taking all things together, we have gotten all we could have asked for this W. H. HUNT, Cashier. section.

MIDDLESBOROUGH.

Ground Broken for the \$800,000 Steel Plant-Other Notes.

MIDDLESBOROUGH, KY., Aug. 23, 1890. Editor Manufacturers' Record:

Mr. Asa S. Loomis, manager of the Middlesborough Hotel since its opening up to the first of the present month, has left for Asheville, N. C., and Col. W. J. Berg, proprietor of the famous Vendome, of Knoxville, has taken charge of the big hotel and promises to make it the peer of any house in the Southern States. Col. Berg is a gentleman well posted in his business, is polite and courteous, and is certainly the right man in the right place.

Mr. C. M. Woodbury, the popular vicepresident of the Middlesborough Town Co., left on Tuesday last for New York via Knoxville, en route to London, Eng., where he goes on important business for his company. Mr. Woodbury will be absent several weeks.

Mr. Clarence Cary, of New York, director and leading counsel of the American Association, Limited, arrived in this city on Tuesday last and will remain several days. Mr. Cary is of the firm of Cary & Whitridge, and is one of the most eminent and distinguished members of the metropolitan bar, and is the only American on the board of directors of the American Association, Limited.

The Daily News, of this city, has pub lished a list of buildings now being erected in Middlesborough. The list includes business houses, residences and manufacturing plants, and the result is exceedingly gratifying and encouraging to the people interested in this section of the country. The list shows that there are \$1,605,000 worth of buildings now being erected, and over \$926,000 worth under contract to be erected this fall. In addition to this a large syndicate with a capital of \$400,000 has been organized in the East for the purose of building brick stores. Mr. John Major is also organizing another building company in London with a capital of

\$1,000,000 to build stores and residences in this city. From this it can easily be seen that Mr A. A. Arthur and his associates are carrying out their promises made to the public, and that from the once barren wilderness they are building a city which will not only be the wonder of the world, but which already, in the course of a single year, ranks as the second city of Kentucky so far as the amount of mail, freight, telegraphic and express matter is concerned.

The amount of building going on is phenomenal, especially when it is considered that material of all kinds is very scarce, and exceedingly high in price; but brick and lumber are being shipped here in tremendous quantities from Knoxville, Chattanooga, Louisville, Lebanon, Lexington and other places.

At four o'clock this afternoon ground was broken for the large open hearth basic steel plant for the Watts Steel & Iron Syndicate, of London. The spot selected is in the immediate vicinity of the blast furnace, now nearly completed for the same syndicate, and though it was raining in torrents, the officers of the Town Co. and of the American Association, with a number of visitors, were present at the cere-Mrs. Edgar Watts, the charming wife of Mr. Edgar Watts, was the lady who had the honor of digging the first spadeful of soil, which inaugurated the commencement of this gigantic work. The spade was tastefully decorated with ribbons bearing the national colors, and immediately after the ceremony an elegant luncheon was served, and many were the bottles of champagne which were emptied in toasting to the success of the new plant. This is said to be the only open hearth basic steel plant, built exclusively for making steel by this process, in the world. It will cost \$800,000, and will give employment to 1,200 men. The buildings alone will occupy three acres of ground. J. P. Witherow, of Pittsburgh, has the contract for building. Mr. Edmond Hanny Watts is the chairman of the company, and Messrs. Frank and Edgar Watts, of this city, the managing directors in America, Mr. George L. Reis being the general manager.

On Monday last the citizens of Cumberland Gap organized a board of trade, which is a similar organization to the Middlesborough Commercial Club. The board organized with about 40 members, the following officers being elected for the ensuing year: Mr. O. C. Cole, president; Mr. Wm. Arthur, vice-president; Mr. J. Masterson, secretary; Mr. C. F. Hopkins,

General R. A. Alger and family, of Detroit, will visit Middlesborough about September 2d to remain several days. The distinguished gentleman comes to Southeastern Kentucky for the purpose of looking thoroughly into the merits of Middlesborough, and to investigate the vast wealth of mineral and timber which are known to exist in the mountains surrounding this city. Great preparations are being made for the reception and entertainment of the general and his family, and there is no doubt that a large crowd of visitors will come up from Knoxville and surrounding towns to do honor to the late commander of the Grand Army of the Republic.

A distinguished party of gentlemen arrived here yesterday morning in Mr. M. H. Smith's private car from Louisville, Ky. The party was composed of Mr. Smith, vice-president of the Louisville & Nashville Railroad Co.; Mr. A. M. Shook, general manager of the Southern Iron Co., of Nashville, Tenn.; Mr. Atkinson. also of Nashville, and Mr. M. H. Woodward, of Clarksville, Tenn. These gentlemen visited Middlesborough for the purpose of examining the coking coal found in the immediate vicinity, with a view of ordering their supplies from here. They were exceedingly well pleased with the result of their examinations.

PRODUCTION OF PIG IRON.

Report of United States Census.

BY DR. WILLIAM M. SWEET.

The production of pig iron during the year ended June 30, 1800, was the largest in the history of the iron industry of this country, amounting to 9,579,779 tons of 2,000 pounds, as compared with 3,781,021 tons produced during the census year 1880 and 2,052,821 tons during the cen-us year 1870. From 1870 to 1880 the increase in production amounted to 1,728,200 tons, or nearly 85 per cent., while from 1880 to 1890 the increase was 5 798,758 tons, or over 153 per cent. The following table shows the production of pig iron in the various sections of the country in the census years 1870, 1880 and 1890, in tons of 2,000 pounds, includ ng castings made direct from the furnace. The statistics for 1870 and 1880 are for the census years ended May 31, but for 1890 they cover the year ended June 30:

From the above it will be seen that the pig iron industry of New England has been practically stationary during the past 20 years, while during the same period, and especially since 1880, there has been a wonderful development of the manufacture of pig iron in all other sections of the country.

The following table gives the production of pig iron by States, in tons of 2 000 pounds, including castings made direct from the furnace, during the census years 1830 and 1890, with the number of completed furnace stacks at the close of each year, the relative rank of each State, and its percentage of the total production:

Total....... 681 a 3,781,021 100.00 a Includes 4,229 tons of castings made direct from furnace.

YEAR E	NDED JU	NE 30, 1890.	
= 1	ompleted urnace stacks.	Product'n of pig iron in tons.	Percent'ge of total product'n,
zPennsylvania	224	4.712,511	49.19
2. Ohio	71	1,303,299	13.59
3Alabama	45	890,432	9.29
4Illinois	15	674,506	7.04
S New York	37	359,040	3.75
6Virginia	31	302,447	3 16
7 Tennessee	79 26	390,747	3.04
8 Michigan		224,908	2.35
9Wisconsin		210,037	2.19
10 New Jersey	18	145,040	1.51
11 West Virginia.	5	108,764	1.14
12. Missouri	8	99.131	1.04
13 Maryland	14	96,246	1.00
14 Kentucky	6	44.199	
15Georgia	5	- 35.747	
16Connecticut	8	21,700	
17. Colorado	2	12,949	
18. Indiana	3	11,470	
19 Texas	4	8,950	3.71
20Oregon	1	8,411	0.7.
21. Massachusetts.	4	8,381	
22 Washington	1	4.787	
23. Maine	8	3,700	
24 North Carolina	8 .	3.377	
25 Minnesota	.1	000102222	
	-	-	-

Total..... 362 b 9,579,779 200.00 b Includes 9,939 tons of castings made direct

Notwithstanding the fact that the production of pig iron has increased from 3,781,021 tons of 2,000 pounds in 1880 to 9,579,779 tons in 1890, the total number of completed furnaces has decreased during

the ten years from 681 to 562. - Many furnaces which were in the active list in 1880 have since been abandoned, owing to their inability to profitably compete with the larger, better located and more modern furnaces of the present day. The majority of these abandoned furnaces were of small capacity, and were able to produce and market pig iron only during periods of great demand and consequent high prices, while the large number of new and im proved furnaces which have been built during recent years, and which are favorably located for the supply of materials at low cost and within easy access to market. have now made the operation of these antiquated furnaces unremunerative even in periods of great activity.

At the close of the census year 1890 the total number of blast furnaces which were active or likely to be some day active was 562, of which 169 were anthracite anthracite and coke furnaces, 253 coke and bituminous coal furnaces, and 140 charcoal furnaces. Of the total number of furnaces at the close of 1880 there were 229 anthracite or anthracite and coke furnaces. 105 coke and bituminous coal furnaces, and 257 charcoal furnaces. In the decade from 1880 to 1890 there is seen to have been decrease of 60 in the number of anthracite or anthracite and coke furnaces, a decrease of 117 in the number of charcoal furnaces, and an increase of 58 in the number of coke and bituminous coal fur-

Of the 562 completed furnaces at the close of the census year 1890 there were 338 in blast, of which 110 were anthracite or anthracite and coke furnaces, 165 coke and bituminous coal furnaces, and 63 charcoal furnaces. The number of furnaces building at the date mentioned was 39, of which 9 were in Virginia, 7 in Alabama, 5 in Pennsylvania, 4 in Illinois, 3 each in Kentucky, Tennessee and Michigan, 2 in Maryland and I each in Georgia, Ohio and Wisconsin.

One of the most noticeable features in the growth of the manufacture of pig-iron in this country during the past decade is the development of the blast-furnace industry of the Southern States. In 1880 the South had already commenced to appreciate the value of the extensive deposits of iron ore and coal within her borders and to realize the superior advantages which she possessed for the cheap production of pig iron, owing to the close proximity to each other of these materials, and a nur ber of large coke furnaces were built in that year and the few succeeding years. The greatest activity, however, in undertaking new furnace plants was in 1887. during which year 5 new furnaces were blown in and 25 others were under con-struction. There has been but little abatement in this activity to the present time.

The following table shows the production of pig iron in the Southern States during the census years 1880 and 1890 in tons of 2,000 pounds, with the percentage of increase or decrease of each State since 1880:

	Year ended	Year ended	
States.	May 31, 1880.	June 30, 1890,	age of increase
	Tona.	Tons.	in 1890.
Alabama	69,336	890.438	1,325.44
Georgia	23,099	35-747	54.76
Kentucky	58,108	44.199	
Maryland		96,246	61.31
North Carolina		3.377	******
Tennessee	47.873	390,747	507-33
Гехав		8,990	539.29
Virginia	17,906	302,447	80,982,1
West Virginia	80,090	108,764	35.87
Total	350,436	1,780,909	408.20

The greatest activity in the development of the Southern pig-iron industry during the past decade is seen to have been in Alabama. This State produced in the census year 1890 one-half of all the pig iron made in the South, and was only exceeded in production in the United States by Pennsylvania and Ohio. Virginia and Tennessee now occupy respectively second

and third places among the pig iron producing States of the South. Prior to the census year 1890 Tennessee was the second leading manufacturer of pig iron in that section, but the activity which has been noticeable during the past few years in Virginia in the erection of new furnaces has placed this State next to Alabama among Southern States in the quantity of pig iron produced. In 1880 West Virginia was the leading producer of pig iron in the South, but in 1890 it was fourth in rank. The manufacture of pig iron in Kentucky and Georgia has been practically stationary during the past decade, and prior to the census year 1890 but little progress had been made by Texas. Two charcoal furnaces were building in that State in the census year 1800, both of which were c pleted but not blown in at the close of that year. All of the furnaces in North Carolina, seven in number, were idle in 1880. and since that year very little activity has been shown in the erection of new works, while the seven furnaces referred to have either been abandoned or are now classed as long-inactive furnaces. The only active furnace in that State at the present time was built at Cranberry in 1884 to smelt the ores of the Cranberry district, using charcoal as fuel; but during the latter part of the census year 1890 this fur-nace used coke as fuel. With the exception of West Virginia and Maryland, nearly all the pig iron made in the South is produced from Southern ores, and of the quantity produced by the use of mineral fuel much the larger part is made from Southern coke. Most of the pig iron made in West Virgina is produced from Lake Superior ores. In Maryland the recent building of four large coke furnaces by the Pennsylvania Steel Co. at Sparrow's Point, near Baltimore, to smelt iron ores from Cuba, has suddenly brought this State more prominently forward as a manufacturer of pig iron. Two of the furnaces were blown in during the census year 1800 and of the other two one is completed and ready for operation.

The following table gives the production of pig iron, in tons of 2,000 pounds, exclusive of castings made direct from the furnace, in each pig iron producing State during the census year ended May 31, 1880, and for the year ended June 30, 1800:

Total production of pig iron
(exclusive of furnace castings),
Vear ended
May 31, 1880. June 30, 1890.

States and Territories. Tons. Tons.
Alabama. 62,336 890,356
Colorado. 12,949
Connecticut. 18,779 21,700
Georgia. 23,099 33,747
Illinois. 95,468 694,566
Indiana. 18,237 11,470
Maine. 2,015 3,700
Maryland. 59,644 66,246
Massachusetts 9,543 8,811
Michigan 119,500 224,817
Minnessota. 59,505 99 048
New Jersey. 137,334 144,910
New York 313,306 3590,30
North Carolina. 3,377
Ohio. 547,701 1,302,661
Oregon 3,200 8,441
Tennessee. 47,733 290,697
Texas. 1,460 7,150
Utah. 620
Virginia. 17,785 302,152
Virginia. 17,785 302,152
West Virginia 79,743 108,738
West Constitution 118,190 20,9977
Total. 3,776,792 9,569,850

Steel Plant at Ashland, Ky.

Assistant Secretary of State W. L. Ringo, of Kentucky, writes the MANUFACTURERS' RECORD: "The organization of the Ashland, Ky., steel plant has been completed. The contract calls for a 300-ton daily output of finished steel; the plant to cost from \$400,000 to \$600,000. It is organized and will be operated by the Norton Iron Works, of Ashland, and the Belfast Nail Works and the Kelly Nail & Iron Works, of Ironton, Ohio."

Subscribe to the MANUFACTURERS' RECORD Price \$4.00 a year, or six months for \$2.00.

GENERAL NOTES.

A FINE and complete plant has been erected at Edgefield, S. C., by the Edgefield Ginning, Milling & Fertilizer Co. and will soon commence operations. It consists of a six-gin cotton ginnery, grist mill with capacity for 250 bushels per 12 hours and a large fertilizer warehouse with machinery capable of mixing from 3,000 to 6,000 tons per season. The plant will be lighted by electricity and was constructed according to the plans of D. A. Tompkins, architect and engineer, of Charlotte, N. C. A. J. Norris is president of the company; Dr. J. W. Hill, vice president, and Dr. W. E. Prescott, superintendent.

ASHEVILLE, N. C., is to have a gala occasion September 3d, 4th, 5th and 6th. An elaborate programme includes international shooting match, rifle and shot-gun teams' contest for \$1,500 in prizes, grand banquet at the Battery Park Hotel, with Gov. Fowle and a half dozen other governors invited and expected to speak. The final event will be a sale of fine residence lots in the northern section of that rapidly growing city.

A COMPANY has applied for a charter at Augusta, Ga., with R. A. Springs, of New York, W. H. Cozart, W. E. Jackson and others, of Augusta, as corporators, to manufacture cotton bagging from the stalk of the cotton plant. The process requires decorticating machines placed in the fields near where a supply of clear running water can be obtained, at which point the stalk is changed into batting and baled and shipped to the factories where it is to be spun and woven ready for market. The company expects to arrange with the planters to either buy their stalks or exchange bagging for them. It is stated that the bagging made from cotton stalks is fully equal to any other bagging material, being strong as jute, less inflammable and slightly darker. The cotton stalks have been heretofore a source of considerable bother to the planter, it being necessary to have them beaten down, burned or plowed for the succeeding crop.

THE owners of the Okefenokee swamp in Georgia and Florida, it appears, have refused to consummate the sale of their property to the English syndicate which offered to purchase it last July at \$1.25 per acre, or \$1.05 in advance of the price paid by the present owners. The preprietors have practically completed a survey of the tract, and, it is stated, the surveying corps found timber worth \$2,000,000 that can be cut and marketed comparatively easily, and estimated that 500,000 acres of the swamp is underlaid with a deposit of sulphate, and the land alone, embracing from 600, 000 to 900,000 acres, to be valued at \$15,0 000,000. General P. M. B. Young, of Asheville, N. C., is one of the original purchasers.

Among the recent developments at Win ston, N. C., are noticed the completion of large brick works by Carter, Shepherd & Co., an immense tobacco factory in course of construction by P. H. Hanes & Co. and a leaf tobacco factory being built by Gilmer, Edmunds & Co. Besides the addition of these industries a number of improvements are being carried out, including the construction of a six-mile boulevard and the improvement of the land company's prop-The electric street railway which lately commenced running is said to be on a paying basis, and Architect Wheelwright, of Boston, has reached there with final plans for the new \$100,000 hotel.

A NUMBER of large buildings in the North were built wholly or partially of Georgia marble, among which are the Auditorium Building at Chicago, which is

said to contain \$45,000 worth of this material; the Ames Building, Boston, costing over \$1,000,000 to erect; the Criminal Court Building of New York, which contains 28,000 cubic feet of Georgia marble : Los Angeles, Cal., Denver, Colo., and Indianapolis, Ind., used this marble in building new city halls, while Kansas City Mo., it is stated, consumed more Georgia marble in her buildings during the past twelve nonths than the State of Georgia has in the past decade. The wide use of this marble is accounted for in its great strength, resulting from the closeness and compactness of the crystals in its formation

THE first bale of new cotton arrived at Norfolk, Va., a few days ago, consigned to Messrs. Vaughan & Barnes. It was grown in Wayne county, North Carolina. There are also a number of new bales en route to that point, which indicates the early movement of the staple this season

.

An excursion party of Western iron men lately visited Glasgow, Va., at the invitation of Mr. M. M. Martin, general manager of the Rockbridge Co., to investigate the iron ore beds and facilities for manufacturing. The party were pleased with what they saw, and expressed surprise at the extent of ore and timber, the water-power afforded by the Upper James and the railroad advantages. The removal of several industries to Glasgow is the probable outcome of the trip.

CLIFTON FORGE, VA., has about 3,200 inhabitants, which will be largely increased by the accession of the employees and their families required to operate the number of new factories to be established The corporate enterprises, including investment and manufacturing companies, have a total capitalization of over \$7,000,ooo, and the town is the terminus of three divisions of the Chesapeake & Ohio Railroad and has secured the location of the large shops of that company. A woolen mill and several other industries are assured. The Clifton Forge Co. will offer an opportunity for investment in this progressive town on September 2d and when a sale and drawing of lots will take place.

THE large lumber mill at Harvey, La., of the Louisiana Cypress Lumber Co., Limited, a description of which appeared in the Construction Department of the MANUFACTURERS' RECORD several months ago, has commenced operations. This mill is reputed to be the largest in the South, and is capable of turning out 120 M feet of lumber and 1,000 M shingles per day. The company consists largely of Northern capitalists, the chief stockholder being a Chicago lumber firm.

THE real and personal property assessment of Roanoke, Va., aggregates \$8,466,-This sum is believed to be considerably less than the real value of the property. The Times of that city recently selected at random twenty-one lots, located in different parts of Roanoke, and on reference to the assessor's books they were found to be assessed for \$33,700. The opinions of leading real estate men as to the actual selling price were then secured, and the lowest estimates on each aggregated \$117,900 for the whole number, showing on accepting these figures the realty values assessed at \$6,750,884 to be actually worth \$23,618,078.

THE returns so far made from the new assessment of property in the State of Alabama shows a large increase in the values. Twelve counties evidence a total valuation of \$36,679,338.71, and a total increase over last year of \$1,359,110. Of the twelve, Madison county heads the list with a valuation of \$6,904,323, and Franklin county

shows the greatest increase of values, amounting to \$248,671. The policy of the State has been since 1887 to gradually reduce taxation, and although the total assessment will be greater than last year the revenue will in all probability be less, because of a further decrease in the tax rate.

A LARGE company has been organized at Florence, Ala., to be known as the Ohio Manufacturing & Investment Co., to be capitalized at \$1,000,000, the stock to be capitalized at \$1,000,000, the stock to be sold at par. The officials are A. W. Stockell, president; E. R. Carlysle, vice-president; J. R. Sheridan, of Columbus, secretary and treasurer. The object of the company is to build factories and engage in the development of Florence. A large amount of valuable real estate in the southern section of the city has been secured, which will be tapped by the L. & N. spur, recently surveyed.

Notes From Cardiff.

CARDIFF, TENN., August 23, 1890. Editor Manufacturers' Record:

One of the signs of the times is the new building operation springing up on every One of the latest largest moves is hand. that of the Nixon Addition Land Co., which has purchased about 500 acres adjoining the town-site on the west. This company has a capital of \$250,000, and is now putting in shape its valuable holdings by plotting the land for homes. Streets are being surveyed and the land cleared up for immediate occupancy. A number of houses will at once be built and an industry of some kind established. The company will have offices in the Paine block.

Another building item of the week can be found in the work of W. S. Weston & Co., who are now at work on six large houses on Lincoln avenue. These houses will be for renting purposes. W. S. Weston is building for himself an elegant residence on Monroe street.

And still another addition is made to Cardiff homes by the nine houses now being built by Rutan & Fraser on Lincoln street. These houses have all been rented, and some of them are not completed yet.

The Cardiff Building & Lumber Co. swell the quota by increasing the number of their houses on Garfield street, two more fine private residences being started this week.

To the business houses Eblen & Morrison this week add their new block on Mississippi avenue, the frame of which is already up.

This week will see the Robinson block on Massachusetts avenue completed and ready for the Cardiff Hardware Co.; the elegant Marston-Swartz brick block is up to the second story; the Robinson brick block on Tennessee avenue far advanced; the foundation work on the Cardiff Coal & Iron Co.'s building nearly completed, and the work on the furnace going rapidly ahead. In addition to the above a number of houses will be finished. The twelve houses near the furnace site were completed last week.

Cardiff will have a fine exhibit at Detroit next week, for at the exposition there will be shown samples of her wealth in iron, coal, limestone, timber and agriculture. To Cardiff has been allotted a commanding position in Tower B, right of entrance, exposition building. This space has been appropriately prepared for the large showing, and it is expected that many who have heard of Cardiff can there see on what she bases her wealth. The exhibit is in every way creditable to the infant city.

The preliminary steps of preparation for the reception of the October excursionists are being taken here. A large number is expected, larger than ever before entered the South on such an errand, and the management here will be governed accordingly.

Tredegar offers the most inviting field in the United States for the establishment of manufacturing enterprises.

It has Unequalled Advantages for

Iron and Steel Works, such as Furnaces, Rolling Mills, Machine Shops, Foundries and everything using iron.

Car-Wheel Works, Car Shops.

Cotton Mills, Knitting Factories, and other Textile Industries.

Cotton-Seed Oil Mills and Fertilizer Factories.

Woodworking Industries of every sort, Saw and Planing Mills, Sash, Door and Blind Factories, Furniture Factories, Handle and Spoke Factories, Agricultural Implement Works, Carriage and Wagon Factories, &c.

Brick Works for making Building Brick, Vitrified Brick. Fire Brick, &c.

Sewer Pipe Works.

And many other industries.

The most liberal inducements will be offered to those who desire to locate such industries.

Best Location in the

TREDEGAR,

Here Are Found:

The finest Hematite Iron Ores in the South.

Extensive Manganese Deposits that experts from Pennsylvania and elsewhere believe to be the greatest in the United States.

Vast Forests of Fine Timber, Pine and many varieties of Hardwoods.

Never-failing Mountain Springs with a daily flow of many million gallons of the purest Freestone water, besides Sulphur, Chalybcate and other Mineral Springs.

A climate that has no superior for all the year; malaria is unknown, and the nights are cool even in midsummer.

A Fertile Agricultural Country, where cotton, grains, grasses, fruits and vegetables yield abundant crops, and where fine Jerseys wade knee-deep in clover.

A population of 3,000, churches of all denominations, excellent schools, charming society.

A National Bank, Water Works, Fine Hotel, &c. Steel Works, to include Furnaces, Rolling Mill, Rail Mill, Cotton Tie Mill, &c., and to employ 3,100 hands, under construction.

A Cotton-Seed Oil Mill and Fertilizer Factory under construction.

For particulars address GOLDSMITH B. WEST, General Manager Jacksonville Mining & Manufactur-ING COMPANY, Tredegar (Present Postoffice, Jacksonville), Alabama.

An Unequalled Field for



LAREDO, TEXAS.

The Gateway to and from the Republic of Mexico

United States and nature's grand inlet for the mineral and raw products of Mexico. For the cheap delivery of the raw material necessary for the successful operation of iron and all textile industries, Laredo holds a position unsurpassed, every material being found in the immediate neighborhood. The very foundations of the city are upon inexhaustible coal beds, now being rapidly developed. A glance at the map will show that there are no large cities within hundreds of miles of Laredo, and her favorable geographical location, being from 600 to 800 miles nearer the trade centers of both republics than any other frontier port, stamps her as the commercial entrepot between the United States and Mexico.

Laredo is becoming a most important manufacturing point, England syndicate.

Is nature's grand outlet for the manufactured products of the having the following industries already located and .n operation:

Woolen Mill.

Wool Scouring Mill.

Tannery.

Boot and Shoe Factory.

Ore Concentrating Works.

Ore Sampling Works,

Cotton Gin and Milling Works.

Mineral Water Bottling Works.

Four Ice Factories.

General Car and Machine Shops of the Mexican National Railroad, the largest west of the Mississippi.

Three Large Brick-yards and several smaller establishments.

A large Cotton Factory is now being erected by a New

Laredo Offers to the Capitalist, Merchant, Manufacturer and Mechanic Opportunities for Investment, Business or Manufacturing such as no other City in the Southwest can offer.

The city is well supplied with railroad facilities and hotel accommodations, has Holly system of water works, two 1886...... 3,000 electric-light companies and one of the best equipped electric motor street railways in the United States.

Population. 1889.....12,000 Imports and Exports.

1888.....\$ 3,000,000 1889..... 10,543,000

For Maps Pamphlets, Bird's Eye Views and Reliable Information of Laredo, address

THE LAREDO IMPROVEMENT

KIMBALL.

MARION COUNTY.

TENNESSEE.

KIMBALL TOWN COMPANY.

H. I. KIMBALL.

Vice-Prest. & Managing Director.

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Huntsville, Ala.
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I. KIMBALL.
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Assistant Treasurer, ED. E. RICHARDSON.
Secretary W. E. DONALDSON.
Assistant Secretary, W. BROOKS COVELL.

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ENGINEERS.

ndscape Engineer, NATHAN G. BARRET. sident Engineer, W. J. KELLY, verage and Electrical Engineers, NIFR, HARTFORD & MITCHELL.

Hon. SAM'L H. BUCK, Gen. Superintendent.

OFFICES.
Richardson Building, Chattanooga.
Union Trust Building, So Broadway, New York
Company's Building, Kimball, Tenn.

Kimball Offers

Solid, practical inducements to manufacturers. First-class enterprises under good management will be guaranteed, one-half the cash required. Local taxes will be remitted for a term of years. Lowest freights and cheapest raw materials will be secured.

Auxiliary Companies

will be organized by the parent corporation for developing the wealth of the Sequachee Valley and for supplying the city with heat, light, water, power and transportation.

A Mammoth Industrial Building

will be erected by the Kimball Town Company, which will have power, light and heat, that will be supplied to manufacturers on the most liberal terms.

Ample provision made for religious and educational institutions.

No Further Auction Sales

this year and no private sales of the corporation's lots except to those who will contract to build immediately on plans approved by the management.

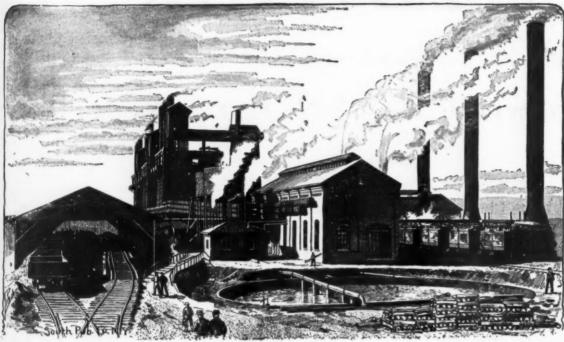
ALL CORRESPONCENCE SHOULD BE ADDRESSED TO

H. I. KIMBALL, Managing Director,

CHATTANOOGA, TENN.

SHEFFIELD, ALA.

THE SUPERE.



At the Headwaters of Deep Navigation on the Tennessee River, the Hudson of the South.

The Largest Producer of HICH-CRADE Pig Iron of any City in the Entire Industrial South.

The only point in the South that has or can ship pig iron to the cities on the Mississippi, Missouri and Ohio rivers by boat barge without rehandling. This last shipment of 5,000 tons of Pig Iron to Pittsburgh, Pa., by barge was made at a saving of \$2.65 per ton over what any iron-producing city of the South has done or can do to-day.

Five Large Blast Furnaces

Capacity 750 tons pig iron per day.

The following are among the corporate and private enterprises that belong to Sheffield:

The Sheffield Land, Iron & Coal Co., capital \$1,000,000.

The Sheffield & Birmingham Coal, Iron & Railroad Co., capital \$1,000,000; the owners of three 150-ton blast furnaces.

The Birm, Sheffield & Tenn. River Railway Co., capital \$5,000,000.

The Hattie Ensley Furnace Co., capital \$200,000.

The Lady Ensley Furnace Co., capital \$200,000.

The Electric Light & Gas Fuel Works, \$50,000.

The Sheffield Geo., capital \$2,000.

The Sheffield Ice Co., capital \$2,000.

The Sheffield Geo.

The Sheffield Contracting Co., \$50,000.

The Sheffield Shery & Bottling Works,

The Sheffield Mineral Paint Co., capital \$50,000.

The Sheffield Agricultural Works, capital \$40,000.

The Sheffield Street Railway Co., capital \$50,000.

Millan Br. thers, Steam Laundry.

Enterprise Publishing Co.

Water Works, already expended, \$30,000.

Sheffield Street Railway Co., capital \$500,000.

Sheffield Hotel Co., capital \$120,000.

Bank of Commerce, capital \$120,000.

East Sheffield Land Co., capital \$50,000.

Sheffield Real Estate Co., capital \$50,000.

Sheffield Real Estate Co., capital \$50,000.

Sheffield Stove Works.

Henderson Milling Co., capital \$50,000.

Sheffield Rone & Telegraph Co.

Foulds' Shoe Factory, capital \$50,000.

Bell Telephone & Telegraph Co.

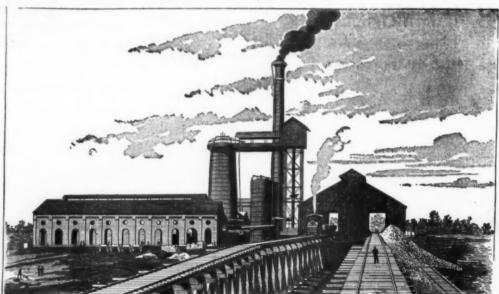
Foulds' Shoe Factory, capital \$50,000.

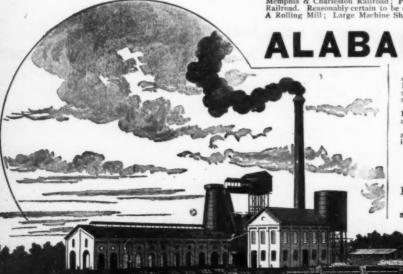
Bell Telephone & Telegraph Co.

Foulds' Shoe Factory, capital \$50,000.

Principal Shops of the Sheffield & Birmingham Railroad.

Principal Shops Memphis & Charleston Railroad, now being built.





The Superb Location at the head of navigation on the Tennessee River, commanding the outlet to immense fields of IRON ORE and COAL and magnificent tracts of the finest Timber. Has already attracted to the spot where three years ago in a cotton field her projectors set the stakes of a new city, capital and people, unequaled in amount and number, circumstances considered, by any of the so-called new cities of the South.

With eight Church Organizations, two Free Public Schools, Postoffice, Telegraph and Express offices and abundant facilities of transportation by river and rail. It has every advantage as a residence city that can be desired.

Good Water; Drainage Excellent; Health and Climate Unsurpassed. Free Public Schools and Churches. Splendid opening for men of push and energy. No better point for profitable investment. No "Old Fogy" element here.

Sites for Manufacturing Enterprises

And for Free Public Schools and Churches

Donated by the Sheffield Land, Iron & Coal Company.

Printed information furnished on request. Correspondence solicited. Communications

W. L. CHAMBERS,

Vice-President and Manager.

Sheffield Land, Iron & Coal Company, SHEFFIELD, ALABAMA

The Staunton Development Co.

OF STAUNTON, VIRGINIA.

Authorized Capital \$2,000,000

Shares \$100 par value each.

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O. K. LAPHAM, Chicago, 24. H. H. FAY, Capitalist, 28 State Street,

GEORGE H. HULL, President American Pig Iron Storage Warrant Company, 44 Wall Street, New York.

STAUNTON, VIRGINIA.

The Queen City of the Valley of Virginia. Present Population 12,000.

Situated in Augusta county at the crossing of the Baltimore & Ohio and Chesapeake & Ohio railroads and accessible to the great coal and coke fields, namely: Connellsville, by the Baltimore & Ohio; Pocahontas or Flat Top by the Norfolk & Western and Chesapeake & Ohio, and New River Coke Fields by the Chesapeake & Ohio.

PROPERTY.

The lands acquired, aggregating 2,242 acres, more or less, are favorably situated within the city limits and adjoining the corporation lines, and it might be fairly said that about 240 acres are situated within the city of Staunton. great bulk of the property lies between the Valley Railroad or Baltimore & Ohio Railroad and the Chesapeake & Ohio Railway, and is most admirably situated for railroad switches and side tracks to reach manufacturing enterprises. streams of good water run through the lands, affording abundant water supply for factories and fine drainage.

CAPITAL STOCK.

The authorized capital is two million dollars. One million, two hundred thousand dollars of stock will now be issued, contribute to the welfare of the city.

of which \$204,800 has been disposed of, leaving \$800,000 of stock in the treasury, to be hereafter issued, if it should be deemed wise to do so.

Subscribers will bear in mind that with every two shares of stock they will be entitled to either a business or residence lot, to be determined by a drawing at a date to be hereafter designated:

BOOKS OF SUBSCRIPTION NOW OPEN.

Staunton is within six hours' ride from Washington, seven of Baltimore, nine of Philadelphia and eleven of New York.

It has an excellent system of water works, paid fire department, electric light and gas companies, ice factory, street car line under construction, four newspapers, handsome opera house, commercial college and other important industries that

The Shenandoah Land & Improvement Co.



Calls the Attention of Manufacturers and Investors



To the SUPERIOR LOCATION and FACILITIES

FOR MANUFACTURING PURPOSES, HOMES AND INVESTMENTS GENERALLY

SHENANDOAH,

PAGE COUNTY.



SHENANDOAH'S NEW HOTEL.

LOCATION.

The town is situated on the east bank of the Shenandoah river, in the world renowned Shenandoah valley, the climate and scenery being unexcelled in the most favored sections of the United States. 1,100 feet above sea level: malaria unknown; atmosphere clear and bracing.

MINERALS AND TIMBER.

On both sides of the Shenandoah river, and immediately adjacent to Shenandoah, are immense tracts of land rich in iron, manganese, copper, lead, asbestos, slates ochres, fire-clay, etc., of fine quality.

Vast bodies of timber lands, furnishing in encless quantity the finest oak, hickory ash, maple, walnut, chestnut, elm and pine for manufacturing and decorative purposes.

The Shenandoah Valley Railroad runs directly through Shenandoah, which will be the terminus of the Washington extension. The West Virginia Central Railroad, as projected, will pass through Shenandoah, opening up the immense mineral deposits of the Massanuttan Mountains.

PRESENT INDUSTRIES IN OPERATION.

There is a Furnace Company, producing 30,000 tons of foundry and mill iron annually. They also operate a foundry. The Shedandoah Valley Railroad have here their principal machine shops, car shops, blacksmith and boiler shops. There is a brick works and two planing mills.

Improvements Decided Upon and Under Construction.

The Land and Improvement Company are building a large and commodious hotel; also a handsome office building. Plans are fully decided upon and work will soon begin on a water works, electric-light plant, water-power facilities, about one hundred dwellings, besides grading streets and laying sidewalks.

The Furnace Company have completed plans and will at once erect another Furnace and a rolling mill.

The Railroad Company will erect a handsome rough stone passenger station, a large freight house, new shops and a round house-doubling present capacity. Many individuals are building residences and stores.

INDUCEMENTS TO MANUFACTURERS.

The Shenandoah Land & Improvement Company are prepared to offer inducements to manufacturers to locate here, and will treat most liberally with any such who desire to establish industrial plants.

By special permission in the charter of Shenandoah, all manufacturers who may establish works here are exempted from corporation taxes for five years.

Possessing so many advantages of such varied character, together with the many improvements now fully decided to be established here, there is every reason to believe that, based on a conservative estimate, Shenandoah will have at least 10,000 inhabitants within the next three years.

FOR COPIES OF PROSPECTUS OR FURTHER INFORMATION, ADDRESS

F. WHEELWRICHT, Secretary.

C. POWELL NOLAND, President.

DENISON, TEXAS.

The "QUEEN" City of the Southwest,

GATEWAY

TO THE-

GREAT STATE OF TEXAS.

The City of Denison presents the Finest Opportunity of any City in the Southwest for the Investment of Capital in Large or Small Sums.

ENISON is situated in Northeastern Texas near inexhaustible beds of coal and iron, surrounded by the finest fruit lands in the world, and adjoining the INDIAN TER-RITORY, which, in the nature of things, must in a few years be opened to settlement.

The growth of Dennison has been a natural one, the city having reached its present size-16,800 population—in sixteen years.

The city is regularly and beautifully laid out. Railroads run from it in four different directions. The Missouri, Kansas & Texas alone does an enormous business, having 54 miles of switch track in Denison, employing 500 skilled workmen and disbursing \$150,000 a month in wages.

The first public school in the State was established here, and the city's elegant two and three story brick school buildings, surrounded by attractive grounds, are well arranged for the use of the white and colored children. Its schools are in session ten months in each year. Denison in 1889. 200,000 baskets of strawber-

We have sixteen church societies, seven of which | are colored.

The city is well supplied with pure water from its numerous private wells-dug in the groundand its first-class system of water works, giving the citizens ample protection against serious loss by fire, and enabling the insurance companies to rate the city first class as to fire hazard. Rate of taxation low.

The city has four miles of street railway, and a six-mile motor railway; has two electric light companies and a telephone plant. It has an influential New England colony, and counts among its citizens people from every State in the Union.

A large hotel, to cost \$125,000, is to be erected here this year, and a large steel plant with \$2,-000,000 of capital is contemplated.

30,000 bales of cotton were shipped from

ries and several carloads of peaches and other fruits have been shipped to market this season.

The Denison Canning Co., capitalized at \$100,000, has one of the largest canning factories in the country.

A cotton mill company with a capital of \$500,000 is building a 25,000-spindle cotton mill.

The climate of Denison is magnificent, situated nearly 800 feet above sea level. In summer it is warm, but far cooler than many cities farther North, and from 6 P. M. until after sunrise it is always cool. The city is very healthy.

The capacity of the ice factory has been increased from a daily output of 15 tons to 30.

The Denison land & Investment Co. is prepared to give every reasonable encouragement to manufacturers, and solicit correspondence from such manufacturers as contemplate coming into the Southwest to locate.

Address all communications to

DENISON LAND & INVESTMENT COMPANY.

DENISON, TEXAS.

Paid-Up Capital,

OFFICERS:

W. P. RICE, President.

B. J. DERBY, General Manager. MILTON H. FRENCH, Vice-President. ARTHUR L. BERRY, Secretary and Treasurer.

DIRECTORS:

W. P. RICE, J. M. FORD, SAM STAR,

XIIM.

Kansas City, Mo. Kansas City, Mo. Denison, Tex.

B. J. DERBY.

ARTHUR L. BERRY, Denison, Tex. M. V. B. CHASE, Augusts, Maine.

Burlington, Vermont. | MILTON H. FRENCH, Thomasten, Maine. B. C. MURRAY, Denison, Texas. Boston, Mass. JOS. B. LINCOLN,

CARDIFF.

The Cardiff Coal & Iron Company,

CARDIFF, TENNESSEE.

Capital, \$5,000,000.

Fifty Thousand Shares-Par \$100.

(CHARTERED BY THE STATE OF TENNESSEE.)

PRESIDENT.

B. B. SMALLEY, BURLINGTON, Vt., President of the Ogdensburg & Lake Champlain Railroad Company.

VICE-PRESIDENTS.

W. P. RICE. FORT PAYNE, ALA.

HENRY C. YOUNG, CARDIFF, TINN., of Cordley & Co., Bankers, Boston, Mass.

GENERAL MANAGER, - - - M. M. DUNCAN.

DIRECTORS.

THE PRESIDENT & VICE-PRESIDENTS, Ex Officio.

JOSHUA L. CHAMBERLAIN, New YORK CITY, N. Y., Ex-Governor of Maine and President of Bowdoin College; Ex-President of the Association of the Army of the Potomac.

WILLIAM WARNER, KANSAS CITY, Mo., of Warner, Dear & Hagerman, Counsellorsat-Law; Ex-Member of Congress from Missouri, and Commander-in-Chief of the Grand Army of the Republic.

SAMUEL E. PINGREE, HARTFORD, VT., Ex-Governor of Vermont; Chairman of the Board of Railroad Commissioners of Vermont.

CHARLES L. JAMES, BOSTON, MASS., of James & Abbot, Lumber.

T. G. MONTAGUE, CHATTANOOGA, TENN., President of the First National Bank of Chattanooga; Director of the Roane Iron Co.

ROBERT PRITCHARD, CHATTANOOGA, TENN., of Pritchard, Sizer & Thomas, Counsellors-at-Law.

I. F. TARWATER, ROCKWOOD, TENN., of Tarwater & Brown, Iron Miners.

J. M. FORD, KANSAS CITY, Mo., President of the Fort Payne, Ala., Furnace Co., and of the First National Bank of Denison, Texas.

CARLOS HEARD, BIDDEFORD, ME., Merchant.

JOHN M. WHIPPLE, CLAREMONT, N. H.

FISCAL AGENTS IN THE NORTH.
CORDLEY & CO., BANKERS, 121 Devonshire Street, Boston, Mass.

BANKERS IN THE SOUTH.
FIRST NATIONAL BANK OF CHATTANOOGA, TENN.

TRANSFER AGENTS.
AMERICAN LOAN & TRUST COMPANY, Boston, Mass.

The Cardiff Coal & Iron Company, at a public sale held April 22d to 24th sold over one million dollars' worth of business and residence property to investors, who will build on and improve the same at once. The prices were conservative and maintained within the limits of actual value. The proceeds of this sale, together with the sum to be contributed by the Cardiff Coal & Iron Company from the sale of its treasury stock, gives the management two million dollars, all of which will be expended in building up the town. The place does not exist that can approximate the inducements that this city now offers to every class of industry and manufacture.

SITUATED IN A HEALTHY CLIMATE.

SUPPLIED WITH PURE WATER.

EXCELLENT TRANSPORTATION FACILITIES.

In the Heart of the Great Iron and Coal Belt of Tennessee,

Surrounded by a rich agricultural community, with every class of business sustained by the demands of the country, Cardiff will furnish to the Manufacturer, to Merchant, the Banker, the Professional Man, the Farmer, the Miner, the Laborer all that reason demands.

Financial Encouragement will be Given Every Class of Business.

The Cardiff town site contains over 3,000 acres. The building of Cardiff is in charge of men of approved judgment and experience. The town will be developed by the erection of Iron Furnáces, Coke Ovens, Hotel, Water Works, Motor Line, Electric Lights, Manufacturing Plants, Public Buildings.

BEDFORD CITY, VA.

The Most Beautiful Residence Portion of this Growing City is

LONGWOOD PARK. *-

The Property of the Longwood Land & Improvement Co.

The property is within five minutes' walk of the N. & W. R. R. depot. It is intersected by broad, oak-shaded avenues, and divided into building lots averaging ninety feet front by 230 feet deep. A superb view of the beautiful Peaks of Otte visible from every part of the property. Prices range from \$6 to \$12 per front foot, according to location, &c.

No Better Investment can be made than in Lots in Longwood Park, at these Prices.

THE CITY HAS AN ESTABLISHED SOCIETY.

Churches, Schools and Academies, (among them the finest in the South,) Manufactures of many kinds, a magnificent supply of Free-stone Water, systems of Arc and Incandescent Electric Lighting, admirable Railroad Connections, a surrounding country of unlimited Mineral Resources and Great Fertility. For further information apply to

R. KENNA CAMPBELL, Gen. Manager

The Longwood Land & Improvement Company.

THE TWIN CITIES OF VIRGINIA.

FRONT ROYAL

RIVERTON

The Phenomenal Success Attending the Inauguration of Industrial Development at the "Twin Cities" will be followed by Still More Astonishing Achievements in the Near Future.

A Number of the Best Known Manufactories in Virginia, Aiready Established and in Successful Operation, others Negotiating for Location.



Beautifully situated at the confluence of the two branches of the Shenandoah river, and at the junction of the two great Southern railroad systems, Front Royal and Riverton offer, among other advantages:

Splendid Railroad Facilities,

Magnificent Water Power,

Inexhaustible Beds of Ore.

Lumber and Hardwood in Abundance,

Rich Agricultural Resources, Picturesque Scenery

Healthful Climate,

Proximity to Northern and Southern Markets

Good Schools, Society and Church Privileges.

Manufacturers seeking location and capitalists seeking investment are invited to investigate the claims of these towns, the most progressive in Northern Virginia. For illustrated prospectus address

H. H. DOWNING, Prest. C. H. BEATY, Secretary. FRONT ROYAL & RIVERTON IMPROVEMENT CO.

FRONT ROYAL VIRGINIA.

The East Suffolk Land Company

OF SUFFOLK, VIRGINIA.

Capital Stock \$300,000.

Shares \$100 Each.

OFFICERS.

SKIPWITH WILMER, President.

J. WM. MIDDENDORF, Treasurer.

CHAS. H. JONES, JR., Secretary.

AMONG THOSE INTERESTED IN THE DEVELOPMENT OF THIS PROPERTY ARE:

H. IRVINE KEYSER, Director Farmers &

O. A. PARKER, of E. L. Parker & Co., tin im-

E. F. LARRABEE. of E. F. Larrabee & Sons, E. F. BRESEE, Mutual Life Insurance Company,

MAX GREIF, of L. Greif & Bro., wholesale clothiers, Baltimore.

HON. T. S. GARNETT, of White & Garnett, Norfolk, Va.

SKIPWITH WILMER, of Barton & Wilmer, JOHN M. ROBINSON, President Scaboard Air CHAS. H. JONES, JR., Vice-President Suffolk &

JOHN GILL, President Mercantile Safe, Trust J. W. MIDDENDORF, of Middendorf, Oliver & | CHAS. SELDEN, General Superintendent B. & | E. F. ABELL, Proprietor Baltimore Sun, Balti-

LEON LAUER, of F. Bergner & Co., Baltimore. D. B Merryman, of Wm. Seemuller & Co., Balti-

JACOB HECHT, Capitalist, Baltimore. H. G VICKERY, wholes ledealer in bacon, pork

HON, C. H. CAUSEY, Attorney, Suffolk, Va.

SUFFOLK, VIRGINIA,

The Railroad Key of Eastern Virginia. Present Population 5,000.

On the main lines of the Norfolk & Western, Seaboard & Roanoke, Atlantic & Danville, Norfolk & Carolina, Suffolk & Carolina and the Suffolk Lumber Company's Railroad. The county seat of Nansemond, on the Nansemond river, 16 miles from Hampton Roads and 20 miles from Norfolk. Has three lines of steamers to Norfolk and Baltimore.

PROPERTY-940 acres of well-drained land on the edge of town.

INDUCEMENTS TO MANUFACTURERS.—Land free and, where necessary, substantial assistance is offered. \$200,000 for development purposes. Cheap coal, iron, wood, cotton. The center of the great truck-raising district. Magnificent transportation facilities by rail and water. Full particulars concerning grants of land, purchase of lots or stock by addressing

CHAS. H. JONES, JR., Secretary, SUFFOLK, VA.

MIDDLESBOROUGH,

KENTUCKY.



There Are Now Under Contract:

A Basic Steel and Iron Plant, daily capacity 300 tons, to cost \$1,000,000 and to employ about 1,000 hands.

An Iron Rod Mill; A Sheet Mill; A Nail Mill.

Two Coke Iron Furnaces, 150 tons daily capacity each, and one Charcoal Furnace.

A \$500,000 Tannery—the largest in the world

Fourteen Coal Mining Enterprises, to employ about \$2,000,000

A Dozen Wood-Working Enterprises.

A Twelve-Mile Belt Railroad.

Tile Works, Fire and Building Brick Works, and a dozen or more other enterprises.

\$18,500,000

Already Invested in the Development of Middlesborough.

Since the above announcement was made, Mr. A. A. Arthur, the manager of the company, has returned from London, where he secured an additional \$8,000,000 to be invested in Middlesborough enterprises.

The capital of the Water Works Company has been in-

creased from \$200,000 to \$750,000.

The capital of the Electric Street Railway Company has been enlarged to \$250,000 and the proposed lines extended so as to cover all the principal streets.

The length of the Belt Railroad has been increased to 20 mi'es, and the whole line will be in operation in a few weeks.

The money has also been secured for an extension of Knoxville, Cumberland Gap & Louisville Railroad through the tunnel into Middlesborough. There is now under negotiation a lease of railway systems, of which the Knoxville, Cumberland Gap & Louisville road will form a link, giving Middlesborough trunk line connection with Chicago, Cincinnati, Louisville, Atlanta, Charleston, Savannah and Pensacola. Arrangements are also being made for direct connection between Cumberland Gap and some point on the Atlantic coast, and following this will be the establishment of a line of steamers between that point and Liverpool.

\$400,000 has been secured for the Middlesborough Coal and Iron Bank, which is now a regular department of the

American Association's business.

The entire capital of the Cumberland Gap Park Company, \$1,800,000, has been secured in London. Contracts already invested.

have been let for the magnificent hotel, casino, sanitarium and other buildings

The Middlesborough Hotel Company's capital has been increased. The company is now making an addition to its present building at a cost of \$25,000. Contract has been let for new hotel with ball room, casino and all the attractions and appointments of a first-class house, to cost \$75,000.

Contract has just been made for a new office building for the American Association, to be of stone and to cost \$35,000. A new office building will also be put up for the Middlesborough Town Company, the material to be stone and brick.

The Ousiotto Building Company, with a capital o \$250,000; the Manchester Building Company \$200,000; the St. Helen's Building Company \$200,000, and the New South Building and Loan Company with \$100,000, have been organized.

The eminent engineer, Mr. George E. Waring, Jr., of Newport, R. I., has been given the superintendency of contracts for a system of sewerage for Middlesborough and for the continuation of the work of straightening the stream that flows through Middlesborough. These improvements will cost \$150,000.

Mr. Arthur completed plans for a residence town at Cumberland Gap in connection with the American Association's developments. The amount secured for this purpose was 750,000. The laying out of these lands has been given to

Mr. George E. Waring, Jr.

The Watts London Iron and Steel Syndicate will increase in addition to those already announced. Of the two furnaces now building the first will blow in early next October, and the second in November. Two other furnaces will be let

to contract January 1.
Parties from Manchester, London and Liverpool will attend the May auction sales at Middlesborough, and will come with \$500,000 to invest in Middlesborough lots. Other parties are coming to form subsidiary companies to operate at Mid-

dlesborough in addition to those enumerated above.

The Northern American Association has been formed with a capital of \$3,750 000 to develop 200,000 acres of Kentucky coal lands; also the Anglo American Association, with capital of \$2,000,000, to develop 80,000 acres of Kentucky coal lands, and the Western American Association, with capital of \$3,000,000, to develop 150,000 acres of coal and iron lands in Tennessee.

Counting the new enterprises arranged for on this trip and the additions to the capital of such as had been already announced, Mr. Arthur has secured nearly \$8,000,000 to be invested at Cumberland Gap. This is \$8,000,000 of new money to be added to the millions

Thus the Amount of Capital now invested in the Development of Middlesborough reaches

above, whose aggregate capital is \$8,750,000, are and solid and permanent a foundation. closely allied to the American Association and the Middles-

Besides this, the three coal and iron companies mentioned such amazing development in so short a time, and on so sure

A year ago the population of the present site of Middlesborough Town Company, and their developments will be made to contribute to the growth of Middlesborough.

The history of the world does not show an instance of three years 50,000 people will be living here.

MIDDLESBOROUGH TOWN CO., Middlesborough, Kv.

DENISON,

TEXAS

THE

Future Manufacturing and Commercial Center

OF THE

GREAT SOUTHWEST.

DENISON SUPPLIES THE COAL FOR TEXAS.

She has at her gates the only COKING COAL of any value in the Mississippi Valley. To the Southwest lies the best MAGNETIC IRON ORE in the world, while to the north and Southeast are fields of BROWN HEMATITE ORE of the finest grade. These ores must meet the COKE and COAL at DENISON and there to be worked.

DENISON cannot be surpassed for HEALTHFULNESS and BEAUTY of location. Six divisions of railways terminate at Denison and are operated by

DENISON has an abundant supply of pure, soft water and plenty of good, cheap BUILDING MATERIAL.

The attention of investors and those seeking advantageous locations for business or for manufacturing plants is invited to the opportunities presented at Denison.

MUNSON & BRO. HAVE SUPERIOR FACILITIES FOR Ta2 SAFE AND PROFITABLE INVESTMENT AND HANDLING OF CAPITAL,

For information about DENISON and for bargains in BUSINESS and RESI-DENCE PROPERTY, ACRE PROPERTY and FARMS NEAR THE CITY, write or call upon

MUNSON & BRO.

301 WOODWARD STREET,

DENISON, TEXAS.

Six Trunk Line Railroads at

BESSEMER

*

In the heart of Mineral Alabama, encircled with hills of Coal, Iron and Limestone Rock.

*

"The South is the coming El Dorado of American adventure. May the Almighty speed and guide her onward progress!" So wrote the Hon. W. D. Kelley, M. C., of Pennsylvania, a few months ago- and every day brings forth new evidence to prove the correctness of his prediction and to show that without a doubt the South is to be the richest country upon the globe. In climate, soil, mineral and timber wealth, in rivers large and small, in a long seacoast, in abundant rainfall, in healthfulness and in every other advantage that could be asked nature seems to have done her best for this favored land. The wealth in iron and coal is beyond estimate. Of timber there is an unlimited supply, including nearly every variety of hardwoods for woodworking purposes.

WHERE MONEY

WILL

GROW!

Seven Furnaces, output 1890, 250,000 tons; Rolling Mill, 100 tons daily; Fire Brick Works, 25,000 daily; Many Lesser Industries

Offers Thirty Varieties of Hardwoods for Woodworking Industries.

11,000 City Lots For Sale.

The Bessemer Land & Improvement Co.

this new year, are prepared to deal liberally for the founding of Iron and Woodworking industries in this growing Mining and Manufacturing Center.

H. F. DeBARDELEBEN, Prest.
H. M. McNUTT, Secretary.

THE PLACE FOR FACTORIES.

THE ROADE IRON CO.

WILL BUILD UP A

LARGE MANUFACTURING CITY

ROCKWOOD, TENN.

AND IS PREPARED TO OFFER SUBSTANTIAL INDUCEMENTS TO MANUFACTURERS.

FOR PARTICULARS ADDRESS

ROANE IRON CO., Rockwood, Tenn

The Gem of the Mountains

TACOM

Wise County, Virginia.

Situated Directly in the Center of the Beautiful Guests River Valley on the Line of the Clinch Valley Extension of the

Norfolk & Western Railroad, midway between St. Paul on the East and Big Stone Gap on the West.

Four large veins of coal at its doors including the famous Imboden vein of superior | 470 lots already sold. coking coal eight feet thick.

3,000,000 brick contracted for.

. v orks being constructed. Streets being graded.

The gateway to the growing Southwest.

A substantial and enduring city to be reared.

A number of industries secured. Manufacturing sites free.

W. E. HARRIS, President,

Big Stone Gap, Va.

HARRIS & HARRIS, Special Agents,

BIC STONE CAP,

"Nature has done for Big Stone Bap what Art, Aided by Millions, can do for no other City."

EIGHT LAND, COAL, IRON and DEVELOPMENT COMPANIES, whose capital aggregates millions of dollars, are aiding the railroads to develop this wonderfully rich Mineral, Coal and Timber Region, and to build here

MIGHTY



LOCATION.

High, healthful, beautiful. Drainage perfect. Confluence of two swift-falling

NATURAL ADVANTAGES.

The point in all the world where inexhaustible COKE, IRON ORE, LIME-STONE and WATER, of best quality, are closest together and easiest got, and where consequently Iron and Steel can be most cheaply made.

TRANSPORTATION FÁCILITIES.

A natural pass-way at water-level in a great chain of mountains, it is of necessity the focal point for Railroads connecting the West with the seaboard, and the markets of the Northwest with the rich coal and iron fields of the Southeast. FOUR RAIL-RUADS, one completed and three to be completed during the year. FIVE MORE RAILROADS being constructed, with Big Stone Gap as the ultimate terminus.

DIVERSITY OF INDUSTRIES

Easily secured. The **HEART** of the finest **COAL**, **IRON** and **TIMBER BELT** on the Continent. Marble, Building Stone, Building Brick, Fire Brick, Lime, Mineral Paints, Tanneries, Potteries, etc., etc.

There are in Course of Construction at Big Stone Cap

wo one hundred-ton Iron Furnace An Electric Light and Power Plant by the Thomson-Houston Co., equal to any in

A Hotel second only to the Ponce De Leon.

A Street Railway three miles long operated by steam.

A Belt Line for manufacturing enterprises six miles long to be extended to eighteen.

Two complete Lumber and Finishing plants.

A complete all the year round Brick Plant

A complete Telephone Exchange.

A complete Steam Laundry.

A Furniture Factory.

A Terra Cotta and Sewer Pipe Company.

A Union Depot which will equal any in the South.

A Coke Plant modeled after the celebrated Connellsville plant building by the Virginia Coal & Iron Co., of which E. B. Leisenring (late president of the Connellsville Coal & Iron Co.) is president.

This company will build coke ovens to meet any demand which may be made upon them.

upon them

GRAND OPPORTUNITIES OFFERED to Investors, Capitalists, Manufacturers, Mechanics, Laborers, Pleasure Seekers and Home Seekers

FOR INFORMATION IN DETAIL ADDRESS

BIG STONE GAP IMPROVEMENT CO. or Real Estate Exchange.

* LURAY, * Virginia. *

2,500 Acres Town Lands,

M

8,000 Acres Mineral Lands,

M

Luray Inn and Caverns.

The Valley Land & Improvement Company,

Capital Stock, \$2,000,000.

Luray, Page County, Va.

DIRECTORS.

D. F. KAGEY, Luray, Va., President.

G. C. MARSHALL, Uniontown, Pa., Vice-President and General Manager.

T. E. McCORKLE, Lexington, Va.

DR. W. L. HUDSON, Luray, Va.

G. K. MULLIN, Philadelphia, Pa.

DR. A. M. HENKEL, Staunton, Va.

J. W. MILLER, Mount Jackson, Va.

EXECUTIVE COMMITTEE.

D. F. KAGEY,

G. C. MARSHALL,

T. E. McCORKLE,

G. K. MULLIN.

Secretary, T. E. McCORKLE.

Treasurer, H. M. KERR, Kagey & Co.'s Bank.

Attorney, T. E. McCORKLE.

Associate Counsel, H. J. SMOOT,

Manager of Inn and Caverns, G. K. MULLIN.

Bankers, D. F. KAGEY & CO., Luray, Va.

CHARTER, PROPERTIES, &c.

The Valley Land & Improvement Company has been organized under the most liberal charter ever granted by the State of Virginia.

2,500 acres for manufacturing purposes and building sites. These lands are in and around the hotel, caverns and town of Luray on an undulating plateau, protected on either side by the Massanutten Mountain and the Blue Ridge Mountains.

8,000 acres of the best mineral properties in Virginia, consisting of iron, manganese and other valuable minerals which have stood the test of examination by the ablest geologists of the country.

The company owns the celebrated Luray Inn and the Luray Caverns.

Page County stands at the head of the list as having a greater variety of minerals and richer than any other county so far as known in the State.

In addition we have the finest kind and a great variety of virgin timber and fireclays, slates, beautiful marbles, ochres, umber and mineral paints.

LOCATION, RAILROADS, &c.

Luray, now a town of about 2,500, is the county seat of Page county, has five churches, splendid schools, fine stores, three newspapers, flouring mill, cigar factory, &c.

The town is on the Shenandoah Valley Railroad, of the Norfolk & Western system, and is the best location in Virginia, four hours from tidewater.

Two new lines projected connecting closely with Baltimore and Washington and insuring cheap freights.

Luray has largest tannery in the world, annual pay roll over \$350,000. Inexhaustible water supply, agricultural resources, charming climate.

Fine natural sites for furnaces and manufactories of all kinds fronting the railroad, reserved by the company, which by donations of land and in every possible way will promote Luray's manufacturing interests.

LOTS, CAPITAL STOCK, &c.

Capital stock \$2,000,000, shares \$100.

One million of stock reserved in treasury for betterment.

One million now offered for sale.

Books open at the bank of D. F. Kagey & Co., Luray, Va.

The company reserves the right to close the books any time before the full amount of the one million is sold.

Twenty per cent. must be paid on subscription, 20 per cent in 30 days, the balance equally in six and twelve months.

When half of the subscription is paid in subscribers have the right to use their stock in payment on lot purchases.

The company feels safe in saying that with the magnificent property in hand, the Inn and Caverns, it will be enabled when thoroughly under way to pay four or five per cent. dividend on the stock sold, independent of lots and mineral lands.

The company already owns an electric plant which will be considerably enlarged,

Complete system of water works and many other improvements projected. Investors are referred to Mr. J. W. Wheeler, Cashier Drovers and Mechanics' National Bank, Baltimore, Md., for full information. H. C. Turnbull, Jr., real estate agent, 52 Lexington street, will receive subscriptions of stock in Baltimore.

The fullest investigation invited.

THE VALLEY LAND & IMPROVEMENT COMPANY, LURAY, PAGE COUNTY, VA.

FOR SUCH INDUSTRIES AS

COTTON MILLS, WOOLEN MILLS, TANNERIES. BOOT AND SHOE FACTORIES, HARNESS AND SADDLE FACTORIES, FURNITURE FACTORIES. CARRIAGE AND WAGON FACTORIES. FLOUR MILLS, GRIST MILLS CRACKER FACTORIES. CANNING FACTORIES, COTTON-SEED OIL MILLS.

DALL

Is equal to any locality in America in its ombined advantages of CHEAP AND ABUNDANT RAW MATERIAL READY, PROFITABLE AND EXPANDING MARKET. DISTRIBUTING FACILITIES. ELIGIBLE SITES. GOOD CLIMATE.

Any worthy industries will be aided liberally by the

DALLAS MANUFACTURERS' AID & IMPROVEMENT CO.

Main Street, Dallas, Texas.

BEDFORD CITY LAND & IMPROVEMENT CO.

BEDFORD CITY, LIBERTY,

By special act of the Legislature of Virginia the Bedford City Land & Improvement Company was chartered with the most liberal grants of power. The company has been fully organized.

AUTHORIZED CAPITAL

\$1,000,000.

JAS. M. BERRY, (of Berry Bros., Tobacconists,) President.

R. B. CLAYTOR, (of R. B. Claytor & Co., Merchants) Vice-President.

J. LAWRENCE CAMPBELL, (of Burks & Campbell, Attorneys-at-Law.)
Secretary.
S. M. BOLLING, (of Bolling, Wright & Co., Tobacconists,) Treasurer.

BUARD OF DIRECTORS :

MARTIN P. BURKS, . C. W. WHARTON,

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VI INA

R. B. CLAYTOR, J. LAWRENCE CAMPBELL,

J. M. BERRY,

S. M. BOLLING.

T. D. BERRY.

SAMUEL GRIFFIN, DR. W. W. SMITH, President of Randolph-Macon College,

W. W. BERRY,

REV. A. B. DICKINSON, D. D., Editor of the Religious Herald, Richmond, Va.

The Company is solvent and its business is conducted on the soundest business principles. It is not engaged in wild booming.

Only \$300,000 worth of stock has been offered to the public.

The Company owns nearly 800 acres, containing the best residence, business and manufacturing sites. The stock which is offered is in ten-dollar shares, payable \$2 per share cash when subscribed, \$1 each thirty days thereafter, until \$5 is paid on the share. For this the Company issues paid up non-assessable certificates of stock. The money thus raised is to be applied to the improvement of the property.

Bedford City is not an old field, but a thrifty, growing community, in the most healthful and beautiful mountain region in Virginia.

Mean yearly temperature 53.7; Winter, 44; Summer, 78.

A few miles from the peaks of Otter, it would be difficult to exaggerate the exquisit beauty of the scenery and the tonic quality of the atmosphere. Within a days ride of Boston, New York, Philadelphia, and a few hours from Baltimore. it presents unusual advantages for health seekers.

The present population is nearly 4,000. There are 30 manufacturing enterprises, large and small, in operation, and 10 new secured with capital provided, which go into work as soon as buildings can be put up and the plants erected.

On the Company's lands are the elegant Randolph-Macon Academy, the largest school for boys in the South, and the Jeter Memorial Institute for young ladies, which will be commenced within six months. The Norfolk & Western R. R. Co. will build a fine passenger depot near a first-class hotel, to cost \$75,000. Poindexter, the architect of the Academy, is now preparing plans.

The Bedford City Company offers the most beautiful residence sites in the western part of the town, in which direction it is rapidly building.

This is the safest and best investment offered anywhere in Virginia. It is a golden opportunity to get property in a splendid section, as rich in minerals as it is healthful and magnificent in the grandeur of its mountains.

A new railroad from Glasgow to Atlanta will be built. Its construction will begin this year. For further particulars address

J. M. BERRY. President of Bedford City Land & Improvement Co., Bedford City, Va.



Maslin's Patent Steam Pump. Cheapest and Best Automatic Steam Vacuur Pump. Handling DIRTY and GRITTY LIQUIDS without Wear, Oil or Care,



S. E. CRAWFORD. NORWALK, OHIO.

Rubber Bucket Chain And Wood Force Pump Supplies.



We manufacture direct acting Duplex and Crank and Fly Wheel Steam Pumps for all services. Brass Founders and manufacturers of Brass and Iron Body goods. Straightway valves, etc. Iron Pipe and Fittings and Mill Supplies. Boiler Feed Pumps a specialty. Address

THE JOHN H. MCCOWAN CO.

42. 44. 46 Central Ave., CINCINNATI. 0. | Branch House, 1425 E. Main St., RICHMOND, VA.



THE DEMING COMPANY.

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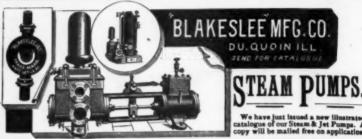
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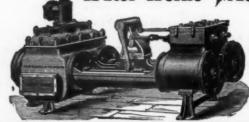


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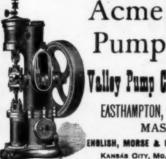
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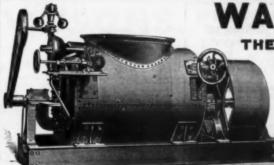
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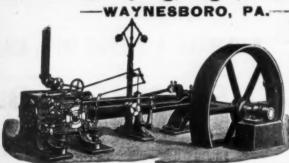
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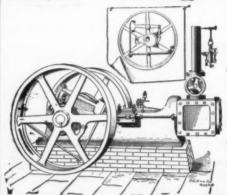
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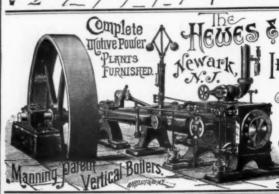


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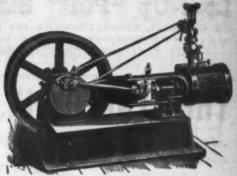
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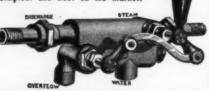
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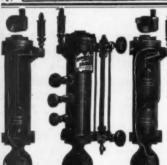
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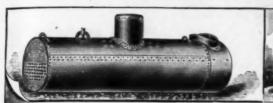
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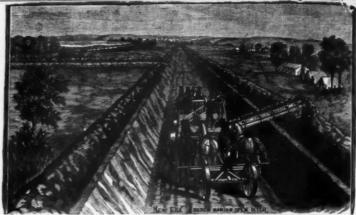
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Americus, Ga.—Electric Railway.—The building of an electric railway to Andersonville, a distance of 10 miles, is a possibility.

Atlanta, Ga.—Railroad.—The Atlanta, West End & McPherson Barracks Railroad Co. has been chartered by J. H. Mountain, H. L. Woodward and R F. Abbott to construct a railroad 4½ miles long. The capital stock is \$75,000.

Anniston Ala — Dummy Line.—A dummy line from Anniston to White Plains via Choccolocco is agitated.

Bamberg, S. C.—Railroad,—Efforts are being made to induce the Southbound Railroad Co., which is to build from Columbia, S. C., to Savannah, Ga., to run its line by Bamberg.

Belair, Md.—Railroad.—It is stated that financial ariangements have been made for the resumption of work on the Deer Creek & Susquehanna Railroad projected from Stafford to Aberdeen, and to have a branch from Glenville to Belair. G. M. Jewett, of Churchville, Md., is president of the company.

Bienville, La.—Railroad.—J. D. Beardsley, vicepresident and general manager of the Louisiana & Northwest Railroad Co. (office, Gibsland), is, it is stated, in the East to secure funds for completing the road to Alexandria.

Big Clifty, Ky.—Railroad.—The branch of the Newport News & Mississippi Valley Railroad (office, New York) to the asphalt deposits of Grayson county, mentioned in last issue, has been completed.

Brandenburg, Ky.—Railroad,—Efforts are being made to build a branch railroad from the Louisville, St. Louis & Texas Railroad at Doe Run bridge down through the town.

Bristol, Tenn.-Railroad -The Norfolk & Western Railroad Co. (office, Roanoke, Va.), lately reported, is said to be surveying an extension from Bristol via Rogersville west.

Buena Vista, Ga.—Railroad.—The project previously mentioned of building a railroad to Richland also includes the construction of a line from Buena Vista to Bostick, and a road from Talbotton to some point on the Georgia Midland.

Burnet, Texas - Railroad and Bridge. - The Austin & Northwestern Railroad Co. (office, Austin) is reported as awarding contract for the construction of a bridge across the Colorado river between Burnet and Llano, and to have its line completed to the latter point by January 1, 1801.

Charleston, S. C.—Cable Road,—The East Short Terminal Co. intends building an overhead cable road for transporting cotton from the compress to the wharf, about 600 or 800 feet.

Charlottesville, Va.—Railroad.—A company has been chartered with R. P. Valentine, president, and S. D. Aylett, secretary, to build the railroad from Charlottesville to Scottsville, recently mentioned

Chattanooga, Tenn.—Railroad.—The construction of a cut-off is proposed from the main line of the East Tennessee, Virginia & Georgia Railroad (office, Knoxville), five miles, from Chattanooga to Boyce, on the Cincinnati Southern Railroad.

Chattanooga, Tenn.—Street Railway.—The City Street Railroad Co., previously mentioned as contemplating the extension of its road, will soon commence work on same.

Chattanooga, Tenn. — Railroad. — Surveying will probably begin soon on the projected Chattanooga & Evansville Railroad.

Cheraw, S. C.—Railroad.—The location of the Carolina Southern Railroad, recently mentioned, has been completed to Sumter, and construction is reported as to commence at once.

Columbia, Ala. — Railroad. — The Columbia, Geneva & Western Railroad has been chartered with John T. Davis, G. L. Campbell, A. A. Jones and others, of Columbia, G. H. Malone and others, of Geneva, as directors.

Covington, Ga.—Electrical Railroad.—The construction of an electrical railroad to Porterdale is proposed.

Crawfish Springs, Ga.—Railroad.—A railroad to Nickajack Gap, on Lookout mountain, is reported as under construction. The Crawfish Springs Land Co. can give information.

Crossville, Tenn.—Railroad.—Ground has been broken for the Genesis & Obed River Railroad.

Cumberland, Md.-Electrical Railroad.—The Cumberland Electric Street Railway Co. has been granted the privilege of laying its tracks through the principal atreets. It is to begin work within 90 days from date and have three miles of track built within one year. The company has a capital stock of \$100,000.

Cumberland, Md.—Railroad.—The Cumberland & Washington Railroad Co., previously reported as chartered to build a railroad from Cumberland to Washington, utilizing the Chesapeake & Ohio canal as a road-bed, has sold to per cent., or \$200,000, of its capital stock, the amount required to be paid in before organization under the charter. A temporary organization was effected with Enoch Pratt, chairman, and John A. Hambleton, secretary, both of Baltimore. A meeting

of stockholders is called for October 15 for election of officers. The company will issue bonds for construction, which may amount to \$8,000,000

Dallas, Texas—Cable Road.—James Harry is president, W. H. Prather, vice-president, and C. W. Guild, secretary of the Dallas Construction Co., lately reported as chartered to build a cable line.

Dalton, Ga.—Street Railway.—J. B. Neely, D. L. Sublitt, J. M. Jones and others have applied for a charter for the Dalton Street Railway Co. to build a street railway. The capital stock is to be \$10,000.

Danville, Va.—Railroad.—Work is reported as commenced at both Danville and Bristol on the Danville & East Tennessee Railroad, lately referred to, and projected to Bristol, Tenn., 175 miles distant.

Dawson, Ga.—Raifroad.—Plans will, it is stated, be shortly perfected for a survey for the projected Florida, Dawson & Northera Raifroad, previously reported. About \$400,000 have already been subscribed toward building the road.

Decatur, Ala.—Railroad.—The Decatur, Chesapeake & New Orleans Railroad Co. is reported as to extend its road from Decatur to Columbus, Miss.

Denison, Texas—Electrical Railroad.—The city council has granted a charter to W. B. Munson, Edward Perry and others to build an electrical street railroad.

Dothen, Ala,—Railroad.—It is stated that the project of building a railroad from Dothen, via Headland, to Abbeville has been taken up by parties who will construct same if donated \$1,000 per mile.

Edenton, N. C.—Railroad.—The Norfolk Southern Railroad (office, Norfolk, Va), previously rumored (under Norfolk) as to be extended further into North Carolina, will, it is stated, be built to Kinston.

Emmittsburg, Md.—Railroad.—The survey has been completed for the proposed railroad from Emmittsburg to Gettysburg, Pa., 11 miles.

Fincastle, Va.—Railroad.—The town has decided to subscribe \$10,000 to the Fincastle & Troutville Railroad, previously referred to.

Friendship, Md—Railroad.—Kogers & Clement, of New York, have received contract for grading the Baltimore & Drum Point Railroad from Friendship to the terminus, Drum Point, about 50 miles.

Galveston, Texas—Railroad.—The Galveston & Western Railroad Co. will, it is reported, probably extend its line from Galveston Island to San Antonio.

Gadsden, Ala.—Railroad.—The Gadsden, Shelby & Montgomery Railroad Co., lately reported, has organized with W. H. Denison, president, and C. E. Payne, secretary. The capital stock is \$1,500,000.

Glasgow, Va.—Railroad.—The Rockbridge Co. is building a railroad to connect the Shenandoah Valley Railroad with the Chesapeake & Ohio. The estimated cost is \$10,000, and it will be completed in 60 days.

Goldsboro, N. C.—Railroad.—The construction of a railroad to Seven Springs and on into Onslow county is being discussed.

Greenville, S. C.—The Blue Ridge Construction Co. has applied for a charter of incorporation. This company is organized for the purpose of constructing the Carolina, Knoxville & Western Railroad, lately mentioned.

Greenville, S. C.—Railroad.—Notice is given that application will be made to the general assembly of the State at its next session for a charter for a company to build a railroad from the North Carolina line by the most direct and practicable route to Greenville, thence to the Savannah river at or near the city of Augusta, and from there to the Atlantic coast.

Greeneville, Tenn.—Railroad.—An election will be held by Greene county September 13 to vote on a proposition to subscribe for \$100,000 of the stock of the proposed Carolina, Greeneville & Northern Railroad. The city will consider on the same date the subscription for \$25,000.

Greenville, S. C.—Street Railway.—The Greenville Dummy Line Co., lately referred to, will endeavor to purchase the franchises and street railway of T. C. Gower & Son.

Hagerstown, Md.—Electrical Railroad.—The Hagerstown Land & Improvement Co., lately reported as to construct an electrical railroad, has petitioned the town council for a franchise.

Henderson, N. C.—Railroad.—The town has decided by a popular vote to issue \$40,000 bonds to aid the construction of the Atlantic, Henderson & Virginia Railroad, projected from Henderson to Nash county. Elections are called along the proposed route for subscriptions amounting to \$150,000. J. R. Young is president of the company.

Humboldt, Tenn.—Railroad.—Work has commenced on the Humboldt end of the Missouri, Tennessee & Georgia Railroad, lately reported. Robinson & Brickley, of St. Louis, Mo., are the contractors.

Jellico, Tenn.-Raifroad.-It is reported that A

A. Arthur, general manager of the American Association, Limited, of Middlesborough, Ky., has awarded contract for building a railroad from Jellico to Middlesborough, 38 miles.

Kearney, Ark.—Railroad.—John J. Martin will make the preliminary survey of the Kearney & Sheridan Railway, which is to extend from Kearney to a point at or near Sheridan, 15 miles.

Knoxville, Tenn.—Electrical Railroad.—H. G. Bishop is reported as surveying for a route for an electrical railroad to be built from Knoxville to Fountain Head by Boston (Mass.) capitalists.

Lancaster, Ky.—Railroad.—The efforts previously reported as being made to induce the Louisville & Nashville Railroad Co. (office, Louisville, Kv.) to extend its road to Lancaster, have resulted, it is stated, in the securing of a charter for a road through Garrard county via Lancaster, starting from either Nicholasville, Burgin or Danville, and running through Madison, Jackson and Clay counties to Middlesborough, Bell county.

Lebanon, Ky.—Railroad.—The survey of the Frankfort, Lebanon & Cumberland Railroad has been completed to Lebanon. The road will pass through Anderson, Nelson and Washington counties, and then on to Lebanon. The company will build the road if Anderson gives \$100,000 and the right of way, Marion and Washington each \$50,000 and right of way, and the other counties in proportion.

Lebanon, Tenn.—Railroad.—An engineering corps is reported as locating a route for a railroad from Lebanon eastward. This is believed to be a project of the Nashville, Chattanooga & St. Louis Railroad Co. (office, Nashville) to parallel the Nashville & Knoxville Railroad.

Lynchburg, Va. — Electrical Railroad. — The West Lynchburg Land Co., lately reported as letting contract for changing its street railroad to an electrical railroad, has contracted with the Piedmont Electric Illuminating Co. to furnish the power.

Marietta, Ga.—Railroad.—The Marietta & North Georgia Railroad Co., previously reported as securing authority to extend its road to Atlanta, will, it is reported, soon commence work on

Marion, N. C.—Railroad.—The Charleston, Cincinnati & Chicago Railroad Co. (office, 45 Broadway, New York city) completed its line through Unicoi county, Tennessee, to the North Carolina line in time to secure the bonds voted by that county, and it is stated that William Kenefick, who has contract for 50 miles of the road through North Carolina, will commence work in two weeks and complete same in one year.

Martinsville, Va.— Railroad.—Allen, Mosley, Davis & Co. have contract for grading 11 miles of the Roanoke & Southern Railroad, lately referred to, north of Beaver creek; will soon commence work.

Memphis, Tenn. — Railroad. — The Raleigh Springs Railroad Co., previously reported as to build a railroad to Raleigh, a distance of 9 miles, has petitioned the city council to rescind its recent action declaring its contract forfeited, and claims it will build the road as rapidly as possible.

Memphis, Tenn.—Electrical Railroad.—The syndicate represented by C. B. Holmes, lately reported as applying for permission to operate its street car lines by electricity, is the Citizens' Street Railroad Co. The overhead system is the one it intends adopting.

Milledgeville, Ga.—Dummy Line.—The Milledgeville & Aaylum Dummy Line Railroad Co. is reported as to extend its line to the Oconee brick-yards and beyond, at an estimated cost of \$5.000.

Mobile, Ala.—Railroad.—A surveying party is reported as starting on a preliminary survey for an extension of the East Tennessee, Virginia & Georgia Railroad (office, Knoxville, Tenn.), lately rumored as to build to New Orleans. The extension to be from Mobile westward to a connection with the New Orleans & Northeastern Railroad, where it crosses the Pearl river, in Mississippi, which is about 43 miles from New Orleans.

Mt. Sterling, Ky.—Railroad.—The Charleston, Kentucky & Western Railroad Co., lately referred to (under Charleston, S. C.), has, it is stated, decided to contract for the construction of its line from Mt. Sterling to Newport, 92 miles. W. H. Trimble, of Mt. Sterling, can give information.

Natchez, Miss.—The Louisville, New Orleans & Texas Railroad Co. (office, Memphis, Tenn.) has filed in Natchez three mortgages, covering its entire line from Memphis to New Orleans to the Metropolitan Trust Co., of New York city, for \$20,550,000 to secure that amount of first mortgage bonds; to the Union Trust Co., of New York, \$16,900,000, also to secure first mortgage bonds, and \$7,894,000 to the same company to secure second mortgage bonds.

New Berne, N. C.—Railroad.—The East Carolina Land & Railway Co., previously reported as to build a railroad to connect with the Wilmington, Onslow & East Carolina Railroad, under construction to Jacksonville, has its chief engineer, F. L. Pitman, examining three different routes, and proposes beginning the work of grading as soon as route is determined.

New Orleans, La.—Electrical Railroad.—The Carrollton Railroad Co. has arranged with the Edison Electric Co. for an experimental electrical line to run to Carrollton.

Norfolk, Va.—Rallroad.—The Charleston, Wilmington & Norfolk Railroad Co., noticed in last issue, has, it is stated, not yet decided in what manner it will enter Norfolk. Negotiations are said to be in progress for the purchase of a charter which would enable it to build an independent line in the event of such a step being decided upon.

Oakland, Fla.—Railroad.—Work will, it is stated, begin September 1 on the extension of the Tavares & Gulf Railroad from Waite's Junction, its present terminus, to Oakland, a distance of S miles.

Pemberton, Fla.—Railroad.—The South Florida Railroad Co. (office, Sanford) has, it is stated, filed notice with the Secretary of State of its intention to extend the Pemberton Ferry branch of its road from present terminus at Pemberton Ferry 80 miles in a northwestwardly direction to a connection with the Savannah, Florida & Western Railroad.

Pickens, S. C.—Dummy Railroad.—J. E. Boggs, J. P. Carey, S. D. Stewart and others have applied for a charter for the Pickens Dummy Line Co. the build the dummy line mentioned in last issue. It is to run from Pickens to the Richmond & Danville Railroad, 7 miles, and possibly to Easley.

Princeton, Kv.—Raiiroad.—Report is current in regard to the extension of the Ohio Valley Railroad (office, Evansville, Ind.) to Nashville, Tena, lately referred to, which states that the road will not only be extended to Nashville, but also to Shefield and Riverton, Ala., and thence east to the coast.

Quitman, Ga.—Street Railway.—The construction of a street railway is proposed.

Rayville, La.—Railroad.—The New Orleans & Northwestern Railroad Co. has, it is asid, let contracts for the construction of its line between Rayville and Bastrop.

Reidsville, Ga.—Railroad.—Henry Hicks, of Wrightsville; H. J. McGee, C. W. Brazell and others are reported as organizing a company to build a railroad from Reidsville to the 58-mile post on the Savannah & Western Railroad.

Richmond, Va.—Electrical Railroad.—A stress railroad is to be built across the bridge mentioned elsewhere in this issue when the structure is completed, and will probably be operated by electricity. The North Side Land Co. can give information.

Richmond, Va.—Electrical Railway.—The Richmond Railway & Electric Co. has petitioned the city council for right of way to extend ita tracks.

Roanoke, Va.—Electrical Railroad.—The Roanoke Street Railway Co. will, it is said, build a quarter of a mile of road to experiment with, operating it by electricity, the current to be conducted by wire under one rail.

Rockport, Texas—Electrical Railroad,—The town council has been petitioned by parties for a franchise to construct an electrical street railway. The mayor can give information.

San Antonio, Texas—Railroad.—The San Antonio & Aransas Pass Railroad Co. contemplates ballasting its entire road-bed of about 560 miles at a cost of \$150,000.

Shelbyville, Tenn. — Railroad. — Track-laying has commenced on the Decatur, Chesapeake & New Orleans Railroad, lately referred to.

Shepherdaville, Ky. — Railroad. — Holmes & Davis, of Louisville, have a contract for grading and masonry, amounting to about \$50,000, for the double-tracking of the Louisville & Nashville Railroad (office, Nashville) from Shepherdaville to Lebanon Junction, 12 miles.

Society Hill, S. C.—Railroad and Bridge.—Contracts are said to have been awarded for the grading and bridge across the Pee Dee river for the Bennettsville & Society Hill Railroad, previously reported. J. J. Lucas can give information.

Springville, Ala.—Dummy Line.—A project is on foot to build a dummy line to Birmingham.

Sumter, S. C.—Railroad.—The locating of the extension of the Charleston, Sumter & Northern Railroad (office, Charleston) from Sumter to Bennettsville, lately mentioned, has, it is stated, been completed and construction is to commence at once.

Sylacauga, Ala.—Railroad.—Grading on the Anniston & Atlantic Railroad (office, Anniston), lately mentioned, is nearly completed to Calera, 33 miles, and track-laying will commence shortly.

Thomasville, Ga.—Railroad.—Morgan & Reynold, who have contract, as previously reported, for building the branch of the Georgia, Southers & Florida Railroad (office, Macon) from Tipton to Thomasville, will, it is stated, shortly sublet so miles, beginning at Thomasville.

Troy, Ala.—Railroad.—It is stated that Worthington, Elliott & DeBardéleben, of Birmingham, have contract for 50 miles of the Andalusia extension of the Central Railroad & Banking Co. of Georgia (office, Savannah), lately reported, and have commenced work. The line is expected to be eventually built to Flomaton, on the Louiswille & Nashville & Railroad, near Mobile.

Velasco, Texas.-Railroad.-The Brazos River Channel & Dock Co., previously reported as to build a railroad, has, it is stated, awarded contract for the construction of a line to the mouth of the Brazos river.

Weatherford, Texas.--Railroad.-The Weather-ord, Mineral Wells & Northwestern Railroad has authorized its directors to execute a deed of trust to the Central Trust Co. of New York for \$500,000 for road-bed, rolling stock, franchises, etc., on that part of the road being built. The former mortgage of \$300,000 is taken up and cancelled by this transaction. Track-laying is to commence about the middle of September.

Winchester, Va.-Railroad -The extension of the Cumberland Valley Railroad (office, Cham-bersburg, Pa.) south along the Western side of the Valley of Virginia is talked of.

Winston, N. C.—Railroad.—The Roanoke Southern Railroad, now under construction, will, it is stated, when completed to Winston, be ex-tended into South Carolina, with possible terminus at Orangeburg.

THE New York Commercial Bulletin says that negotiations are in progress for the purchase of the minority interest in the Memphis & Charleston by the East Tennessee, Virginia & Georgia, now owning the controlling interest. It is stated that Memphis & Charleston stockholders will exchange their stock at 80 for East Tennessee bonds at 90.

* * *
SPEAKING of the railroad earnings for July the Stockholder says: The Southern roads are unusually prominent both for the extent and the degree of the improvement, notwithstanding the period is within the dull season of the cotton year. It is noteworthy, also, that the large gains in that part of the country are made on only a small increase in mileage. Only three Southern roads out of 48 reporting show any loss, and they are minor lines. The gross earnings in July of some of the most important Southern lines have been as follows for the past two years:

July.	1S89.	1890.
Chesapeake & Ohio	\$ 585,437	\$ 612.884
Ches., Ohio & Southwestern	181,050	188,803
Cin., N. O. & Texas Pacific*	623,051	651,473
East. Tenn., Va. & Ga	471,496	593,052
Louisville & Nashville	1,448,494	1,542,475
Louisville, N. O. & Texas	158.509	202,337
Memphis & Charleston	125,514	141,615
Mobile & Ohio	207,000	257,193
Norfolk & Western	421 263	532,551
Richmond & Dan. System	903,154	978,350
Shenandoah Valley	87.794	114,000
South Carolina	96,661	105,000

Southern railroad construction is quite active at present, particularly in Tennessee and Kentucky. The Decatur, Chesapeake & New Orleans Road is being built steadily. Work is being done from Lincoln county, Tenn., toward Decatur and Shelbyville, and it is expected that the will be completed to Shelbyville by October 1. The Ohio Valley Railroad Co. made an offer to the Louisville & Nashville Co. to purchase the branch from Princeton, Ky., to Clarksville. The Ohio Valley would have to nearly parallel this section were it not purchased, and the negotiations are aimed to avoid that competition. It is reported, however, that should the Louisville & Nashville decline the offer, the Ohio Valley people will construct the parallel. The Southern Iron Co is the Louisville & Manyline will construct the parallel. The Southern Iron Co is building a road from the Ætna furnace to Allen creek. The Louisville & Nashville Railroad Co. is building a section in Lawrence county to the ore beds. The road from Paducah, Ky., to Paris, Tenn., is under contract, and sixty or seventy miles will be ready for use by October 1. The Florence Northern is a road which will develop a Tennessee mineral territory. It will tap ore beds in Lawrence county. Through trains are running between Knoxville and Atlanta, a distance of 220 miles. The Knoxville Southern runs through the counties of Knox, Blount, Monroe, McMinn and Polk, in Tennessee. From the Georgia State line southwest to Marietta the road is known as the Marietta & North Georgia, though the two roads are under the same management and belong to the same company. From the Georgia Division a branch of the main line runs to the same company. From the Georgia Division a branch of the main line runs to Murphy, N. C. There are three important towns on the line between Knoxville and the Georgia State line—Louisville, Blount county; Madisonville, Monroe county, and Ducktown, Polk county.

Southern Hop Yards-A Suggestion.

The hop crop of continental Europe is a failure this season. The English crop is very poor. The surplus of last season in the principal hop districts of the Continent has been exhausted. England looks to the United States to supply her needs whenever her crop is short. Most of this supply is bought from New York and the Pacific coast States. The annual average crop from all these sources is about 170,000 bales, or 30,600,000 pounds.

The average cost of producing hops and baling them, including interest on land and cost of plants, is higher in New York than on the Pacific coast, because of the cheaper labor employed in the latter and the lesser value of the land occupied, but the average cost for the United States does not exceed eight or nine cents a

There have been a few seasons during the past fifty years when prices have fallen below cost and growers have been losers, but as a rule there has been a varying margin of profit when crops were good, and when there was any considerable shortage in Europe, American hop growers have made a great deal of money. This was notably the case in 1882, when prices advanced from ten cents paid the year before to \$1.25 a pound.

It is estimated by dealers who keep well informed of the condition of the hop crop every season, that this year's production will fall somewhat below the highest average of other years, while the deficiency in Europe will amount to many millions of pounds. Contracts have been made in advance of the picking season for new crop hops in New York for from 30 to 35 cents, and in the Pacific States for 25 cents a pound. Dealers expect that before this season's picking can be marketed the present price will advance at least 100 per cent. Estimating the cost at 9 cents and the selling price at 25 cents, the profits of the growers this year would be \$4,896,000, while the total value of the producers of New York, California and the Puget Sound section of Washington, who alone are included in this estimate, would be \$7,650,000. If dealers are correct in their expectations of a hundred per cent. advance within two months, the value of the crop of those three States will be \$15,300,000.

Several times during the past eight years the MANUFACTURERS' RE-CORD has urged Southern cultivators to pay some attention to hops. It has been shown that this plant was an indigenous product in many sectiors, that it has been generally grown-not cultivated-for domestic use in yeast-making and for a pain alleviator, and that there were few old-fashioned homes in Southern country places that did not have near them one or two roots that sent up bling materials at the furnace is comvines and bore crops annually. In- paratively insignificant.

quiries made in many localities failed to find a single instance in which the fruit had been injured by mildew or insects, two serious troubles that frequently destroy the crops of the New York hop districts. It has also been shown that Southern hops mature much earlier than at the North, and that in many localities they could be sun and air-cured, thus saving the cost of the dry-houses and the expense of the processes employed elsewhere, and that finally the cheap labor that abounds in the South would be greatly in favor of the hop growers of that section; while, because of the cotton presses on every plantation, there would be no need of purchasing other baling machines.

The consumption of hops keeps pace with the increase of population, while the production does not. It is not probable, therefore, that prices will ever again fall below cost of production, while the frequently recurring failures of European crops make it certain that at intervals enormous profits will accrue to American cultivators. There is another peculiarity of this agrtcultural product that it is well to remember-plants once well established live for an indefinitely long period. Every season the vines are cut away from the roots, which the next year send up their shoots, consequently there is no re-planting. The cost of poles, a serious item in oth r sections, is reduced to a minimum at the South, thus enabling hop yards to be established and maintained at much less relative outlay.

All the foregoing being facts, there would seem to be much to encourage Southern cultivators to enter experimentally into this industry. Three varieties are cultivated in the North, called respectively "the Humphrey," which is picked the last of August, the "English cluster" and the "red vine." The last two ripen in September. Whether any one of these would do better in the South than the others, or whether the native variety, properly cultivated, would be superior to all three, can only be ascertained by repeated trials. tainly experiments of the kind sug-gested would cost but a trifle, while success with any one variety would lead to an important addition to Southern agriculture.

THE Philadelphia Record, by its agitation in favor of lower rates, has secured some concessions in favor of Schuylkill iron-makers. In the nature of things this will be only temporary. Railroad rates were the effect and not the cause of the trouble. Long dis tances lie at the root of the ruin which has come upon the iron trade in the Schuylkill valley. The rates may be hammered down for a time, but this condition is abnormal, and they will go back where they were, and the iron men will keep on dismantling and abandoning their furnaces. These troubles, growing out of long hauls, serve to accentuate the advantages of the South, where the cost of assem

Southern Financial News.

NEW BENKS

Alexandria, Va.—It is reported the First Na-

Atlanta, Ga.-A new State bank is being organed with J. C. McMahan as president, to have a capital stock of \$100,000.

Belvidere, Tenn.-The organization of a bank

Charleston, S. C.—The Nickel Savings Bank has been chartered, with a capital stock of \$10,000, by J. Boyd, W. N. Lucas and J. C. Mallonee.

Clifton Forge, Va.—The Clifton Forge Banking & Construction Co. has been organized with a capital stock of \$100,000. Edward Echols in president; J. L. Duncan, secretary, and J. L. Stack, treasurer.

Cordele, Ga -The National Guaranty Co viously reported as having applied for charter, has been organized with a capital stock of \$500,oo. J. E. D. Shipp is president and A. H. McRae secretary.

Corpus Christie, Texas.-The First National Bank is said to be organizing.

Eastland, Texas.-Parties from Baird are prospecting with a view to organizing a bank

Flovilla, Ga.-The Flovilla Bank has been anized with a capital stock of \$100,000. R. H.

Jackson, Ga.—The Farmers' Alliance is considering the organization of a bank.

Jasper, Tenn .- A bank is projected

Mason, Texas .- It is reported that the Citizens' Bank has been organized with a capital stock of

Middlesborough, Ky.—It is reported that the Bank of Claiborne, with a capital stock of \$25,000, has been organized with C. H. Rogers, president, and M. McRobins, vice-president, to operate at Arthur, a new town near Middlesborough.

Tampa, Fla.-The National Bank of Tampa will, it is stated, be organized with a capital stock of \$100,000 by Poyntz, Hicks & Co.

Valdosta, Ga .- A bank with a capital stock of

Waxahachie, Texas.—It is reported that the Waxahachie National Bank has been organized with a capital stock of \$100,000.

Elizabeth City County, Va., will open bids in sixty days for \$21,000 of bonds, par value \$500 each. No bids under that amount considered. J. B. Lake, Hampton, Va, can give particulars.

Frederick, Md.-The Frederick County Na al Bank has declared a semi-ann of 3 per cent.

Greenville, S. C.-W. E. Beattie, chairman, Greenville, S. C., will receive bids until September I for \$8,500 city of Greenville bridge bonds bearing interest at 6 per cent.

Henderson, N. C., has voted to issu aid the construction of the Atlantic, Henderson & Virginia Railroad.

I. M. Brown, chairman finance committee Gal-J. M. Brown, chairman finance committee Gai-veston Wharf Co., Galveston, Texas, will receive bids until September 10 for the purchase of 100 50 year bonds of \$100 each, bearing 5 per cent. interest per annum, payable on the first days of April and October of each year.

The Lonaconing Co-operative Store, at Lona coning, Md., will pay to its stockholders a dividend of 5 per cent., and a dividend of 2½ per cent to non-stockholders.

The Shelby Railroad Co. has declared a dividend of 1 per cent., payable at its office in Louis

The Weatherford, Mineral Wells & Northwestern Railroad Co., authorized its directors at a meeting recently held at Weatherford, Texas, to execute a deed of trust with the Central Trust Co. of New York, trustee, for \$500,000 for equipr d other purposes.

Wilson, Colston & Co., bankers, Baltimore, Md., offer for sale \$18,000 Western North Caro-lina Railroad first mortgage 6 per cent. gold

Knitting Machinery.

A good bargain can be had in buying

3 Sets of Knitting Mill Machinery

Now running on white cotton goods in Central New York. In good condition. Poor health of owner is cause of sale. Has made money each year. For information address

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Corrected Weekly by MARTIN & LEEDY, Stock and Bond Brokers, and Members Birmingham Stock Exchange.

SATURDAY, AUGUST 23, 1890.

STOCKS.		Canital	Par	LAST DIV	IDENI Per Cen).	
BANKS. Or	ganized	Capital Stock.		Declared.			Asked.
Alabama National	Remixen	\$500,000	100	July 'co	B 4	100	III
American National	1887	250,000	100	July '90 July '90	8.4	109	100
Bank of Attalla	1880	50,000	100	Findler Second	8.5	2222	5534
Berney National	1996	300,000	100	July '90 July '90	8.5	3.27	3374
Birmingham National	1887	250,000	100	July '90	8.3	0000	97
Central Savings	1889	50,000	100	Tealty too		0.044	****
City National	1989	100,000		July 90 July 90		175	
First National	1884	250,000	100	July '90	a 6	184	***
First National Bank of Gadsden	1887	50,000	IDO	July 30	a 6		
Jefferson County Savings	1885	150,000		July '90	8.6	145	
pigeringham Trust & Savings Co.	1987	500,000	100	July '90	8.3	100	105
Mutual Loan & Trust Co People's Savings Bank & Trust Co	1888	50,000	100	July '90		100	
People's Savings Bank & Trust Co	1888	50,000	100	July '90	8.4	115	****
RAILROADS.	.00						
Birmingham Union Railway Co	1887	1,000,000			0000	***	25
Birmingham & Ensley Railway Co.	1887	500.000	50	*****	8000	25	****
North Birmingham Street R. R	1887	65,000	50	*****	****	50	****
Highland Avenue & Belt R. R. Co South & North Alabama R. R. Co	1007	1,000,000	100	0 0 9 0	:	45	****
MISCELLANEOUS.		*****	0.0		****		30
	-99.	150,000	100	Oct , '88	2		
Avoidale Land Co.	1904	3,000,000	100	July, '87	9.4	5636	58%
Alabama Coal & Iron Co	1890	1.000,000	100	July, of	44	3078	100
Anniston City Land Co	1886	500,000			****	****	23
Alahama Rolling Mill Co.	1887	250,000	100			0 60	-3
Alabama Rolling Mill Co Bessemer Land Co	1887	2,500,000	100	May, '87 Mch. '87	9 2%		36
Rirmingham Mining & Mfg. Co	1887	150,000	100	Mch. '87	9.33	40	65
Birmingham-Ensley Land Co	1886	450,000	100		1 33	5	8
Rirmingham Ice Factory	1886	85,000	100	July, '89	810	100	105
Birmingham Water Works Co	1887	500,000	100	30011		****	83
Birmingham Soap Works Co	1886	50,000		*****		22	30
Brooklyn Land Co	1886	1,400,000		******		00 0	1111
Brooklyn Land Co Birmingham Furnace & Mfg. Co Camille Gold Mining Co	1886	1,500,000	100	84.40			16
Camille Gold Mining Co	1887	1,500,000	30	**** *		36	****
Cahaba Coal Mining Co		1,400,000	100				70
Chattanooga East End Land Co	1887	1,000,000	100	*****		15	25
DeBardeleben Coal & Iron Co		4,000,000	100				76
Decatur Land Imp. & Furnace Co	1887	5,000,000	100	****		13%	14%
Decatur Mineral Land Co	1887	350,000	100	Oct., '87	21.		2234
Elyton Land Co	1871	200,000	100	Oct., '87 Nov. 10, '87 July, '89		800	950
Edison Electric & Illuminating Co	1886	100,000	100	July,'89	8.4		103
East Birmingham Land & R. R. Co	1886	1,022,800	100			12	13%
East Birmingham Land & R. R. Co East Lake Land Co	1886 -	200,000	100	June, '87	n 50	***	80
		10 000,000	100		* + * *		10
Enterprise Manufacturing Co	1880	100 000	100	****	0000	221/6	32%
Eureka (Furnace) Co · · · · · · · · · · · · · · · · · ·	0000	000-000-	***	A	***	4	
Florence Land & Mining Co	-00-	3,700,000	100	April, '89 April, '87	1	-9/	221/2
Gadsden Land Co	1887	3,000,000	100	April, '87	q I	534	30
Hecla Coal Co	-080	300.000	100	*****	****	10	
Herderson Steel & Mfg. Co	1080	100,000	100		****	80	****
Henderson Steel & Mig. Co	1887	150,000	100		****	00	65
Lafferson Ruilding & Improvement Co.	1887	350,000	100	******		814	10
Jefferson Building & Improvement Co							
Jefferson Building & Improvement Co Jagger-Townley Coal & Coke Co	1887			*****			60
Leeds Land Co	1887	150,000	100	*****		52	62
Mag Eilen Coal & Mining Co	1887	150,000		00000	****		62
Mag Etten Coal & Mining Co Mary Lee Coal & Railway Co	1887 1888	150,000 100,000 500,000	100 100 100	*****		52 100 20	****
Mag Ellen Coal & Mining Co Mary Lee Coal & Railway Co North Birmingham Land Co	1887 1888 1888	150,000 100,000 500,000 700,000	100	00000		52 100 20	55
Leeds Land Co Mag Etten Coal & Mining Co Mary Lee Coal & Railway Co North Birmingham Land Co Smithfield Land Co Sloss Iron & Steel Co.	1887 1887 1888 1886 1886	150,000 100,000 500,000 700,000 850,000	100 100 100 100	*****	****	52 100 20	55
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railway Co North Birmingham Land Co Sibus Iron & Steel Co South Anniston Land Co	1887 1888 1886 1886 1886 1887	150,000 100,000 500,000 700,000	100 100 100 100	*****	****	52 100 20	55
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co Sloss Iron & Steel Co. South Anniston Land Co. Sheffield Coal & Iron Co	1887 1888 1886 1886 1886 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000	100 100 100 100	*****	h 1	52 100 20 36 45	55
Leeds Land Co. Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. Sloss Iron & Steel Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co.	1887 1887 1888 1886 1886 1887 1887 1883 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 20,000	100 100 100 100 100 100 100	Apr. 15, '90 Mch,'87 Feb.'88	****	52 100 20 34 45	55 1 1736 57
Leeds Land Co Mag Ellen Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co Sloss Iron & Steel Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 20,000 9,000,000	100 100 100 100 100	*****	h 1 x 5	52 100 20 36 45	55 1 1736 57
Leeds Land Co Mag Ellen Coal & Railway Co. Mary Lee Coal & Railway Co. North Birmingham Land Co. Smithfield Land Co. Sloss Iron & Steel Co. South Anniston Land Co. Shefield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co., pref.	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 850,000 4,000,000 750,000 1,000,000 20,000 9,000,000 1,000,000	100 100 100 100 100 100 100 100	Apr. 15, '90 Mch,'87 Feb.'88	h 1 x 5 5	52 100 20 35 45 45	55 1 1736 57
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co Sloss Iron & Steel Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tensessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 20,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb.'88 May 15, '87	h 1 × 5 5	52 100 20 35 45 52 	55 1 1734 57 90 4514
Leeds Land Co Mag Ellen Coal & Railway Co. Mary Lee Coal & Railway Co. North Birmingham Land Co. Smithfield Land Co. Sloss Iron & Steel Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co., pref. Tuskaloosa Coal, Iron & Land Co. Vulcan Coa' & Coke Co.	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 20,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb.'88 May 15, '87	h 1 × 5 5	52 100 20 35 45 45	55 1 171/4 57 90 451/4 105
Leeds Land Co Mag Ellen Coal & Railway Co. Mary Lee Coal & Railway Co. North Birmingham Land Co. Smithfield Land Co. Sloss Iron & Steel Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co., pref. Tuskaloosa Coal, Iron & Land Co. Vulcan Coa' & Coke Co.	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 1,000,000 20,000 1,000,000 1,000,000 100,000 175,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb.'88 May 15,'87	h 1 × 5 5	52 100 20 3/2 45 45 52 221/2 5	555 1 173/2 57 90 45/2 105
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co Sloss Iron & Steel Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tensessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 850,000 4,000,000 750,000 1,000,000 20,000 1,000,000 1,000,000 1,000,000 175,000 3,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, 87 Feb, 88 May 15, '87	h 1 x 5 5	52 100 20 34 45 52 22½ 5	55 1 171/4 57 90 451/4 105
Leeds Land Co Mag Ellen Coal & Railway Co. Mary Lee Coal & Railway Co. North Birmingham Land Co. Smithfield Land Co. Sloss Iron & Steel Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co., pref. Tuskaloosa Coal, Iron & Land Co. Vulcan Coa' & Coke Co.	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 850,000 4,000,000 750,000 1,000,000 20,000 1,000,000 1,000,000 1,000,000 175,000 3,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb.'88 May 15,'87	h 1 × 5 5	52 100 20 34 45 45 52 22½ 5	555 1 171/2 57 90 451/2 105 80 35
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co South Anniston Land Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co., Tennessee Coal & Iron Co., Tennessee Loal & Iron Co., West End Land Co West End Land Co Woodstock Iron Co BONDS.	1887 1887 1888 1886 1886 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 1,000,000 20,000 1,000,000 1,000,000 1,000,000 100,000 175,000 3,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87	h1 x5 5	52 100 20 34 45 52 100 22½ 5	555 1 171/2 577 90 451/2 105
Leeds Land Co Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Woodstock Iron Co. West End Land Co. Woodstock Iron Co. BONDS. Alice Furnace.	1887 1888 1888 1886 1886 1886 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 100,000 175,000 001	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb, '88 May 15, '87 INTERE Rate Per C	h1 x5 5	52 100 20 34 45 45 52 22½ 5	55 3 17/4 57 90 45/4 105 80 35
Leeds Land Co Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Woodstock Iron Co. West End Land Co. Woodstock Iron Co. BONDS. Alice Furnace.	1887 1888 1888 1886 1886 1886 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 100,000 100,000 175,000 001	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch. '87 Feb. '88 May 15, '87 INTERE Rate Per C	h1 x5 5	52 100 20 35 45 52 100 22½ 5	55 1 173/6 57 99 453/6 105 80 35 Asked
Leeds Land Co Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tenskaloosa Coal, Iron & Land Co. Vulcan Coa' & Coke Co. Woodstock Iron Co. BONDS. Alice Furnace. Birmingham Gas & Electric Light Co. Birmingham Gas & Electric Light Co. Birmingham Union Railway Co.	1887 1888 1888 1886 1886 1886 1887 1887	150,000 100,000 300,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C	h l x 5 5 5	52 100 20 54 5 52 53 53 53 54 5 53 53 54 55 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56	55 3 17/4 57 90 45/4 105
Leeds Land Co Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tenskaloosa Coal, Iron & Land Co. Vulcan Coa' & Coke Co. Woodstock Iron Co. BONDS. Alice Furnace. Birmingham Gas & Electric Light Co. Birmingham Gas & Electric Light Co. Birmingham Union Railway Co.	1887 1888 1888 1886 1886 1886 1887 1887	150,000 100,000 300,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, 50 Mch, 87 Feb. 88 May 15, 87 INTERF Rate Per (7 8 6 6	h l x 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	52 100 20 34 45 52 53 53 53 53 61 61 61 61 61 61 61 61	555 1 173/4 57 90 453/4 105 80 35 Asked
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co South Auniston Land Co South Auniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Truskaloosa Coal, Iron & Land Co Vuican Coa' & Coke Co Woodstock Iron Co BONDS. Alice Furnace Birmingham Gas & Electric Light Co Birmingham Gas & Electric Light Co Birmingham Water Works	1887 1887 1888 1886 1886 1886 1887 1887	150,000 100,000 700,000 700,000 850,000 750,000 20,000 9,000,000 1,000,000 1,000,000 100,000 175,000 00 01	100 100 100 100 100 100 100 100 100 100	Apr. 15, 50 Mch, 87 Feb. 88 May 15, 87 INTERF Rate Per (7 8 6 6	h l x 5 5 5	52 100 20 45 45 52 52 53 603 921/2 108	555 1 177/4 577 90 45/4 105 80 35 Asked
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co South Auniston Land Co South Auniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Truskaloosa Coal, Iron & Land Co Vuican Coa' & Coke Co Woodstock Iron Co BONDS. Alice Furnace Birmingham Gas & Electric Light Co Birmingham Gas & Electric Light Co Birmingham Water Works	1887 1887 1888 1886 1886 1886 1887 1887	150,000 100,000 700,000 700,000 850,000 750,000 20,000 9,000,000 1,000,000 1,000,000 100,000 175,000 00 01	100 100 100 100 100 100 100 100 100 100	Apr. 15, 50 Mch, 87 Feb. 88 May 15, 87 INTERF Rate Per (7 8 6 6 6	h l x 5 5 5	52 100 20 45 45 100 22½ 5 	555 1 173/4 57 90 453/4 105 80 35 Asked
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co North Birmingham Land Co Smithfield Land Co South Auniston Land Co South Auniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Truskaloosa Coal, Iron & Land Co Vuican Coa' & Coke Co Woodstock Iron Co BONDS. Alice Furnace Birmingham Gas & Electric Light Co Birmingham Gas & Electric Light Co Birmingham Water Works	1887 1887 1888 1886 1886 1886 1887 1887	150,000 100,000 700,000 700,000 850,000 750,000 20,000 9,000,000 1,000,000 1,000,000 100,000 175,000 00 01	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C 7 8 6 6	hi x5 5 	52 100 20 	555 1 177/4 577 90 451/4 105 80 35 Asked 92 100/4
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co. Morth Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. West End Land Co. West End Land Co. West End Land Co. West End Land Co. BONDS. Alice Furnace Birmingham Gas & Electric Light Co. Birmingham Gas & Electric Light Co. Birmingham Water Works. Cababa C. & M. Co., 1st Mortgage. Caldwell Hotel. Elyton Land Co., Trust Bonds. Eureka (Furnace) Co.	1887 1897 1898 1886 1886 1885 1887 1883 1887 1883 1887 1887	150,000 100,000 500,000 700,000 550,000 750,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C 7 8 6 6	hi x5 5 	52 100 20 	555 1 171/4 57 90 453/4 103 35 Asked
Leeds Land Co Mag Elien Coal & Mining Co. Mary Lee Coal & Railwav Co. North Birmingham Land Co. Smithfield Land Co. South Anniston Land Co. South Anniston Land Co. South Anniston Land Co. South Anniston Land Co. Sheffield Coal & Iron Co. Thompson Brick Co Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Tennessee Coal & Iron Co. Woodstock Iron Co. BONDS. Alice Furnace. BONDS. Alice Furnace. Birmingham Gas & Electric Light Co. Birmingham Union Railway Co. Birmingham Union Railway Co. Birmingham Union Railway Co. Birmingham Water Works. Cahaba C. & M. Co., ist Mortgage. Caldwell Hotel. Elyton Land Co. Trust Bonds. Eureka (Furnace) Co. Henderson Steel & Mfg. Co.	1887 1897 1898 1886 1886 1885 1887 1883 1887 1883 1887 1887	150,000 100,000 500,000 700,000 550,000 750,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C 7 8 6 6 7 8 6 6 7 8	hil x5 5 5	52 100 20 45 45 52 53 100 22½ 53 100 92½ 103 109 109 109 109 109 109 109 109 109 109	55 1 17½ 57 90 45½ 105 105 35 Asked 116
Leeds Land Co Mag Ellen Coal & Mining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Anniston Land Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co West End Land Co West End Land Co West End Land Co Moodstock Iron Co BONDS. Alice Furnace Birmingham Gas & Electric Light Co Birmingham Gas & Electric Light Co Birmingham Water Works Cababa C. & M. Co., ist Mortgage. Caldwell Hotel Elyton Land Co., Trust Bonds Eureka (Furnace) Co Henderson Steel & Mfg. Co	1887 1897 1898 1886 1886 1886 1887 1883 1887 1883 1887 1887 1887	150,000 100,000 500,000 700,000 850,000 850,000 750,000 20,000 20,000 1,000,000 1,000,000 1,000,000 100,000 100,000 Out	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C 7 8 6 6 7 8 6 6 7 8	h l x 5 5	52 100 20 45 45 52 53 55 55 60 103 92 1/2 103 92 1/2 103 104 105 105 106	55 1 17½ 57 99 45½ 105 35 Asked 116
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Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Anniston Land Co South Anniston Land Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co Woodstock Iron Co West End Land Co West End Land Co Woodstock Iron Co BONDS. Alice Furnace BONDS. Birmingham Gas & Electric Light Co Birmingham Water Works Cababa C. & M. Co., 1st Mortgage Caldwell Hotel Elyton Land Co Trust Bonds Elyton Land Co Henderson Steel & Mfg. Co Henderson & Steel Co., 1st Mortgage "" " " " " " " " " " " " " " " " "	1887 1887 1888 1886 1886 1886 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, 90 Mch, 87 Feb. 88 May 15, 87 INTERE Rate Per C 7 8 6 6 7 8 7 6 6 6 6 6 6 6 6 6 6 6 6 6	h l x 5 5 5	\$2 100 20 20 20 20 20 20 20 20 20 20 20 20 2	555 1 171/4 575 453/4 105 453/4 100 1/4 100 1/4 100 1/4 75 91 1/4
Leeds Land Co Mag Ellen Coal & Maining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Auniston Land Co South Auniston Land Co South Auniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co West End Land Co West End Land Co West End Land Co Woodstock Iron Co BONDS. Alice Furnace BONDS. Alice Furnace Birmingham Gas & Electric Light Co Birmingham Union Railway Co Birmingham Union Railway Co Birmingham Water Works Caldwell Hotel Elyton Land Co., Trust Bonds Sureka (Furnace) Co Henderson Steel & Mg. Co Mary Pratt Furnace Sloss Iron & Steel Co., 1st Mortgage " 2d" " 2d"	1887 1887 1888 1888 1886 1886 1887 1887	150,000 100,000 500,000 700,000 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, 87 Feb. 88 May 15, '87 INTERE Rate Per C 7 8 6 6 7 8 6 7 7 6 6	h l x 5 5 5	52 100 20 45 45 52 100 22½ 5 100 22½ 100 100 100 100 100 100 100 100 100 10	55 1 17½ 57 99 45½ 105 35 Asked 116
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Auniston Land Co South Auniston Land Co South Auniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co Woodstock Iron Co BONDS. Alice Furnace Co BONDS. Alice Furnace Co Birmingham Union Railway Co Birmingham Water Works Cababa C. & M. Co., 1st Mortgage Caldwell Hotel Elyton Land Co Trust Bonds Elyton Land Co Henderson Steel & Mfg. Co Walliamson Iron Co Williamson Iron Co Williamson Iron Co	1887 1887 1888 1886 1886 1886 1887 1887	150,000 100,000 500,000 700,600 850,000 4,000,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, 90 Mch, 87 Feb. 88 May 15, 87 Feb. 88 May 15, 87 Feb. 86 6 6 7 8 6 6 7 8 6 6 8 8	hl x5 5 5	52 100 20 20 45 45 45 52 45 53 100 22½ 5 5 103 103 103 103 104 105 105 106 107 106 107 107 107 108 109 109 109 109 109 109 109 109 109 109	55 17% 57 90 45% 105 35 Asked 92 100% 116
Leeds Land Co Mag Ellen Coal & Mining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Anniston Land Co South Anniston Land Co Sheffield Coal & Iron Co Tennessee Coal & Iron Co West End Land Co West End Land Co West End Land Co West End Land Co BONDS. Alice Furnace BONDS. Alice Furnace BONDS. Alice Furnace Bonds Water Works Cahaba C. & M. Co ist Mortgage Caldwell Hotel Elyton Land Co., 'Irust Bonds Elyton Land Co., 'Trust Bonds Elyton Land Co., 'Trust Bonds Elyton Land Co., 'Trust Bonds Elyton Land Co., 'Irust Bonds Elyton Steel & Mfg. Co Mary Pratt Furnace Sloss Iron & Steel Co., 1st Mortgage "" ad "" " " ad "" " " " " " " " " " " " " " " " " "	1887 1897 1898 1898 1896 1896 1896 1897 1887 1887 1887 1887 1888 1887 1887	150,000 100,000 500,000 700,000 700,000 750,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, 87 Feb. 88 May 15, '87 INTERE Rate Per (h1 x5 5 5	52 100 20 45 45 52 100 22½ 53 100 22½ 53 100 22½ 53 100 22½ 53 100 22½ 53 100 22½ 53 100 22½ 53 100 53 100 54 54 55 55 56 56 56 56 56 56 56 56 56 56 56	55 17% 945% 105 80 35 Asked 100% 116
Leeds Land Co Mag Elien Coal & Mining Co Mary Lee Coal & Railwav Co Morth Birmingham Land Co Smithfield Land Co South Anniston Land Co South Anniston Land Co South Anniston Land Co Sheffield Coal & Iron Co Thompson Brick Co Tennessee Coal & Iron Co Tennessee Coal & Iron Co Tuskaloosa Coal, Iron & Land Co Woodstock Iron Co BONDS. Alice Furnace Co BONDS. Alice Furnace Co Birmingham Gas & Electric Light Co Birmingham Water Works Cahaba C. & M. Co., 1st Mortgage Caldwell Hotel Elyton Land Co Trust Bonds Elyton Land Co Henderson Steel & Mfg. Co Henderson Steel Co., 1st Mortgage 2d Williamson Iron Co Williamson Iron Co Tennessee Coal, Iron & R. R. Co	1887 1887 1886 1886 1886 1886 1887 1887	150,000 150,000 500,000 500,000 500,000 750,000 850,000 1,000,000 1,000,000 1,000,000 1,000,000	100 100 100 100 100 100 100 100 100 100	Apr. 15, '90 Mch, '87 Feb. '88 May 15, '87 INTERE Rate Per C 7 8 6 6 7 7 8 6 6 8 8 6 6 6 6 6 6	hil x5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$2 100 20 20 20 20 20 20 20 20 20 20 20 20 2	55 17% 17% 17% 45% 103 35 Asked 102% 100%

Explanation.—a—For six months. q—Only dividend declared since organization. x—This company declared 5 per cent. February 1 also. z—Total dividends paid, 49 per cent. [—Dividend for one year, ending July 1, 1889. E—Sold hereafter Ex. 15 per cent. dividend. o—Dividend 3 per cent. paid in May, 87, also October 1. n—Fifty per cent. Dividend on Union R. Stock. h—Payable October 15, 1889. f—A 5 per cent. Dividend has been paid quarterly since organization. w—For dividends refer to the company. * * May 6, '87, 50 per cent. cash; May 10, '87, 50 per cent. cash; Sept. 14, '87, 50 per cent. cash; Oct. 10, '87, 100 per ce

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Richmond Stock Exchange Quotations.

Reported by JOHN L. WILLIAMS & SON, Bankers, Richmond.

PACHIMONG.	
RICHMOND, VA., August 26, 18	lgo.
BID. A	SEED.
North Carolina 4's, 1919 99	44
North Carolina 6's, 1919	100
Virginia New 3's, 1938 69)6	6914
Danville 5'a	103
Lynchhurg Va s'a rore	
Petersburg, Va., 5's, 1918	0.0
Norfolk, Va., 5's, 1911	
Richmond, Va., 5'8, 1929 210	
Atlanta & Charlotte Ry., 1st 7's, 1907121	- 0.5
Atlanta & Charlotte Ry., 18t 7 8, 1907. 131	198
Atlanta & Charlotte Gt'd 6's, 1900. 105%	209
Char., Col. & Aug. R.R. Gen. 6's, 1932.109	4.5
Georgia Pacific Ry. 1st 6'a, 1922 110	11721
Georgia Pacific ad 5's, 1923 78	7036
Ga. Pacific Incomes, 5's	.87
Petersburg Railroad Class A 5's, 1926. 104	4.6
Petersburg Railroad C'ass B 6's, 1926. 109	**
Rich. & Danville R. R. Gold 6's, 1915 13516	
West. N. Car. R. R. Gt'd 6's, 1914	101
Northwestern N. Car. R. R. 1st 6's 102)6	9.0
Atlanta & Charlotte R. R. Stock	101
North Carolina Railroad Stock	9.0
R., F. & Pot. R.R. Div'd Obligations	22
Virginia Midland Railway Stock	1000
Sloss Iron & Steel Co. Stock	-
Sloss Iron & Steel Co. 1st 6's	**
Sloss Iron & Steel Co. 2d 6's	**
MINE AT THE WAR AND ADD - 1004 1 14	36.65

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In correspondence relating to matters reported in this paper, it will be a favor if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ALABAMA.

Anniston—Power Plant.—The Anniston City and Co. contemplates the erection of a bee-hive

Attaila-Iron Mines,-J. N. Baker & Co., of Rockwood, Tenn., have, it is reported, purchased the lease of Obe Christopher on the Winchester iron mines and will develop same

Avondale-Furniture Factory.-W. H. Morris of Birmingham, is erecting the furniture factory mentioned in last issue, and may orga stock company at a later date to operate.* and may organize

Birmingham - Gin, Grist Mill, etc. - G. P. Hughes, D. Faucett and J. M. Terry have porated the Greely's Creek Gin, Milling & Ma ufacturing Co. with a capital stock of \$2,000.

Birmingham—Iron Furnaces.—The Vanderbilt Steel & Iron Co., previously reported, will soon put in blast its "Clara" iron furnace. It is ru-mored that the company will build another iron furnace at once.

Florence--Manufacturing, &c .-- The Ohio Manu facturing & Investment Co. has been organized with A. W. Stockell as president; E. B. Comly, vice-president, and J. B. Sheridan, secretary, and ses to build factories, improve property. The capital stock is \$1,00

Fort Payne.—The York Syndicate, referred to in last issue, is organized for investment purposes Helena-Rolling Mill.-The Shelby Rolling Mill Co., mentioned in last issue, is putting

new 32x42-inch engine and additional boilers its rolling mill. Leesburg-New Town.-It is stated that North ern and Eastern capitalists are purchasing lands in the vicinity of Leesburg with a view to build a

new town. Montgomery - Bridge. - Contract has b awarded to the Vermont Construction Co., of St. cont. to build the iron bridge acre

Opelika-Spoke and Handle Factory.-E. G. Webber is reported as having erected a spoke and handle factory.

Opelika-Knitting Mill.-The Opelika Knitting

Mills has, it is reported, put in new machinery. Piedmont-Planing Mill .- J. J. Eubanks will, it

is reported, enlarge and increase the capacity of his planing mill. Shaffield-Water Works -It is stated that John

son & Field, of St. Louis, Mo., will at once make surveys for the construction of the water works previously mentioned. Warrior-Coal Lands,-G. M. Morrow is re

ported as having purchased large tracts of cland from E. K. Fulton, of Birmingham,

York Station-Stave Factory.-Neff & Foulk of Demopolis, will start a tight barrel-stave fac tory.

ARKANSAS.

Blanchard Springs—Lumber Mill.—W. L. Bis inger is reported as putting axe-handle ma hinery in his lumber mill.

Camden-Bottling Works.-John Austin has, it is stated, established the bottling works previously reported.

Camden-Wagon Factory.-I. M. Agee is re ported as organizing a \$30,000 stock co

Hot Springs-Ice Factory .- A. C. Jones will, it is reported, erect the ice factory lately mentioned

Pine Bluff-Barrel Factory.-McMillan & Drey fus, of Winchester, Ark., intend moving their barrel factory to Pine Bluff, as lately stated.*

FLORIDA.

Beresford — Machine Shop. — The Kingsbury Janufacturing Co. is erecting a machine shop.

De Land-Water Works,-G. W. Fisher, S. B. Wright and I. A. Stewart have incorporated the De Land Water Works Co. to operate the w works recently mentioned. The capital stor

wille Brick-ward and Phosphate Mit The J. R. Tysen Co., Limited, mentioned in last such as chartered, operates a brick-yard, and is nterested in two or three phosphate companies bout to be incorporated in England.

Jacksonville - Phosphate Mines .- The Grande Phosphate Co., referred to in last issue ing plan

Madison-Saw Mill.-George E. White has re-Madison-Water Works.-The construction

a system of water works is projected. Durst can give information. Mannfield--Phosphate Mines, &c .- The Bald-

vin Fertilizer Co., of Savannah, Ga., has, it is stated, purchased the phosphate mines (ab cres) of the Citrus County Hard Rock Phosphate Co. for \$75

Minneola-Corn Mill, Gin, etc.-M. P. Godfrey outting in a corn and feed mill, as stated in t issue, and a cotton gin; also erecting an irri gating plant.

-Land.-The Ocala & Blue River Pl hate Co. has, it is reported, purchased cres of land near Ocala for \$40,000.

Panasoftkee—Fertilizer Factory.—The Shell Mound Phosphate Works is reported as putting in new machinery.

San Antonio-Sugar factory.-A. Wichers is erecting a sugar factory to be known as the San Antonio Sugar Works.*

Satsuma-Shingle Mill.-The Satsuma Lumber Co., lately referred to, will put in shingle ma-chinery with capacity for about 12 or 15 M per day.

GEORGIA.

Abbeville.—The Abbeville Real Estate & Im-rovement Co. has been organized.

Americus-Cigar Factory -Warnock & Miller of Newton, Ala., will organize a stock company to establish a cigar factory, as stated in last issue.

Americus-Cotton Bagging Factory.-The cotton bagging factory previously reported as to be erected by the Southwest Georgia Alliance Manufacturing Co. will be 52x140 feet, with engine room 40x22 feet, boiler room 20x34 feet, and dust oom 9x21 feet.

Atlanta - Broom Factory .- H. K. W. Childres tablished the Veterans' Broom Works, as stated

Atlanta-Police Signal System.-The city will probably establish a police signal system

Atlanta-Planing Mill, etc.-J. V. Bishop uplates erecting a planing mill and sash, door and blind factory at an early date.

Augusta-Canning Factory.-H. P. Cook, H. C. Bordin, Dean Newman and others have incor porated the Augusta Manufacturing & Canning Co. to erect the canning factory previously men-tioned. The capital stock is \$4,000.

Augusta-Cotton Bagging Factory.-A stock company has been incorporated by W. E. Jack-son, R. A. Springs, of New York, Asbury Hull and others to establish a cotton-stalk bagging factory. The capital stock is \$500,000.

Barnesville - Artesian Well -- McMichael & Hardy will receive bids for sinking the artesia

Canton-Marble Mill.-The Piedmont Marble

Cartersville—Paint Factory.—W. S. Crosley has started a paint factory.

Cartersville-Cotton Factory.-A stock of pany will probably be organized to erect the cotton factory previously mentioned.

Cartersville - Brick and Tile Works .- The mpany mentioned in last issue as to erect brick works has been organized as the Carters-ville Brick, Tile & Stone Co. with Hiram Blais-dell as president, C. B. Wallace, vice-president, and J. H. Wikle, secretary. The capital stock is

Crawfish Springs-Iron Furnace, &c .- It is stated that an iron furnace will be built a ron foundry and machine shop established. Crawfish Springs Land Co. can give inform

Crawfish Springs-Cotton Gin.-Gordon Lee vill, it is reported, erect another cotton gin.

Forsyth-Laundry.- The establishment of ndry is talked of.

Girard - Fertilizer Factory .- The Colum Fertilizer Co., of Columbus, is reported as en-larging and putting new machinery in its

Hillman-Mineral Springs, &c.-I. E. Green W. T. Gary, G. W. Conway and others have in corporated the Nausea Cure Springs Co. to de velop mineral springs, &c. The capital stock is

The Kensington Land Co., of Chatta Tenn., write that contracts have been signed for tenin, which the tent control is a solution of the handle and stave factory, cotton factory (to employ 600 hands), rolling mill, planing mill, foundry and machine shop mentioned in last issue.

Macon.-The Neel Shoe Co., reported in last ssue, will not manufacture.

Macon-Mower Factory.-A \$50,000 stock pany will probably be organized to manufacture wer patented by J. M. Hunt, of Round Oak.

Macon-Car Works.- The Georgia Rolling Stock Co. has been incorporated by H. J. Lamar J. S. Schofield, J S. Baxter and others to build the car works recently reported. The capital

Milledgeville-Water Works.-The purcha of the Moran Springs property, mention issue, have made the city a proposition to con struct the water works.

Oakland-Lime Factory.- Frank and Perry Cocke are reported as erecting a \$7,000 lime ran

Richland-Variety Works, &c -The Teabeaut ning Mill & Variety Works has been organ

Tunnel Hill-Iron Mines, etc.-The Varne Land & Iron Co. has been organized at Lynn, Mass., with J. W. Goodell, president, and Oliver R. Howe, treasurer, both of Lynn. The purpos mpany is to deal in real estate, develor

Waterloo (P. O. at Cedartown) - Chair and Table Factory.—J. T. Harris is reported as having established a chair and table factory.

Waterloo (P. O. at Cedartown)—Bottling Works J. T. Harris has, it is reported, purchased the Campbell springs, and will establish bottling works to put the water on the market.

Worth County-Lumber Mills .- A. M. John and C. R. Gaskill, of Chattanooga, Tenn W. Patillo have organized the Worth Lumber Co., and is, it is stated, erecting lumber mills. The capital stock is \$50,000

KENTUCKY.

Ashland-Steel Plant.-The Ashland Steel Co as been formed by the Belfont Iron Works Co. and the Kelley Nail & Iron Works, of Ironton, Ohio, and the Norton Iron Works, of Ashland, to build the steel plant recently mentioned. capacity is to be 300 tons of finished steel per day, and the plant is estimated to cost from \$400,000 to

Ashland-Fire-brick Works.-The Clinton Fire brick Works has been organized with E. C. Means, president, and R. C. Richardson, secretary, to establish the fire-brick works previously ned. The capital stock is \$50,

Covington—Chemical and Salt Works.—W. M. Mixer, T. W. Spearwater and P. A. Spearwater have incorporated the Kansas Salt & Chemical Co., Limited, to manufacture salt and its chemical products. The capital stock is \$150,000

Covington - Twine Factory. - Overman Schrader will, it is reported, erect a tarring house at their twine factory and put in \$50,000 worth of new machinery.

Covington - Fuel Plant. - Henry Cummins, G. W. N. Yost, W. T. Block and others have in-corporated the New York Standard Fuel Saver Co. with a capital stock of \$2,500,000

Hopkinsville-Electric-light Plant and Water Works.—The city will erect an electric-light plant and construct water works after January 1, 1891.

Maysville-Gold Mines, &c .- W. F. Widmayer Albert Bodine and Gustave Morris have incorporated the Dahlonega Gold Mining Co. to purchase and develop gold mines, &c. The capital stock is \$1,500,00

Middlesborough-Artesian Well.-It is reported that an artesian well is being sunk at Harr

Middlesborough-Planing Mill.- I. R. Ryan will, it is reported, establish a planing mill

Middlesborough - Iron Furnace, &c. - It is stated that a 50-ton charcoal iron furnace will be built, a 100-barrel flour mill erected, a brick-yard with a capacity of 50,000 brick per day started, and two stone quarries develo town near Middlesborough. A. A. Arthur

Newport-Shoe Factory.-Gunning & Donelan Covington, have, it is reported, moved their shoe factory to Newport.

Paris-Bridge.-Contract for constructing the iron bridge across the Houston, mention has been awarded to the King Iron Bridge & Manufacturing Co., of Cleveland, Ohio

Russellville-Laundry.-A steam laundry will robably be started by Clark & Browder.

LOUISIANA.

Hammond - Saw Mill. - The Cate Lumber, Brick & Improvement Co. is, it is reported, erect ng a new saw mill 40x150 feet.

New Orleans-Bridge.-Otto The eive proposals until September 1st for the con n of an iron bridge over the N

New Orleans-Knitting Factory.-H. E. Andercontemplates adding knitting machinery a capacity to manufacture from 25 to 50 dozen with capacity to manu pairs of hose per day.

New Orleans-Electric light Plant - The Co sumers' Electric-light Co. has petitioned the for a franchise to erect an electric light plant.

New Orleans-Machine Shops, &c.-The H. Dudley Coleman Machinery Co. has been incorporated to succeed H. Dudley Coleman & Co. anufacturers of machinery, &c. The capital

New Orleans-Artesian Well.-The Louisians Electric Light Co. contemplates sinking an arte

New Orleans-Lumber Mills, etc.-The Orle Manufacturing & Lumber Co. (Limited) will la meeting September 4 to vote upon a proposi to increase its capital stock.

Plaquemine—Ice Factory.—The name of the stock company reported in last issue is the Plaquemine Ice & Cold Storage Co. S. Hiriat is president; W. Wallenburg, vice president, and J. A. Grace, secretary.

Plaquemine—Sugar-house.—Edward Desolbry nas erected a new sugar-house on his Long Point

Shiloh-Gin and Saw Mill.-T. H. Lan building his cotton gin and saw mill, adding a ew cotton press.

Shreveport-Laundry.-The Shreveport Steam Laundry has, it is stated, put in new machinery,

MARYLAND.

Baltimore—Elevator.—J. T. Moulton & Sons, contractors for the Northern Central Railroad Co.'s grain elevator near Calvert Station, have let contract for the masonry work to S. H. & J. F.

Charlesville-Flour Mill.-Charles Broadrup is reported as putting new machinery in his fl

Frederick-Ice Factory.-W. C. Birely is president and A. S. Brown, secretary, of the Frederick Ice Co., mentioned in last issue.

Hagerstown-Bicycle Factory.-Crawford & Co., of Washington, D. C., will move their bicycle factory to Hagerstown, as stated in last issue

Motter's—Carriage Factory.—J. M. Fisher is inlarging his carriage factory, as stated in last ssue (under Mechanicstown). Washington, D. C.—Brewery.—Albert Carry as, it is stated, purchased Henry Raabe's

brewery for \$112,00

MISSISSIPPI.

Bay St. Louis-Ice Factory, &c.-The stock company lately reported as being organized to erect an ice factory is the Gulf Coast Ice & Manufacturing Co., with Paul Conrad, president; A. Aullman, vice-president, and Alexander Lesseps, secretary. The capital stock is \$25 000.

Meridian—Bridge.—W. H. Curtis will receive proposals until September 1st. to build a bridge over Tallahatta creek.

Water Valley-Electric-light Plant and Water Works.-The city will hold an election September 29 on a proposition to issue \$10,000 of bo nds for the erection of an electric-light plant and the con struction of water works.

NORTH CAROLINA.

Asheville-Flour Mill.-W. E. Logan will put a and of rolls and a new boiler and engine in his

Burlington-Cotton Mill.-Lawrence C. Holt, proprietor Aurora Cotton Mills, referred to in last issue, is building an addition to contain 75 s for weaving cotton check and plaid Machinery has been purchased.

Chapel Hill-Iron Mines.-It is stated that a syndicate will open iron mines near Chapel Hill.

Charlotte-Ice Factory, &c -W. F. Worth & Co. of Wilmington, will, it is reported, sink an artesian well and erect an ice factory.

Danbury.—It is stated that J. A. Gilmer, of Greensboro, has purchased the Piedmont Springs, near Danbury, for \$10,000,

Durham-Carriage Factory.-It is rumored that will be erected.

Durham-Cigarette Factory.-Duke, Sons & Co. have put three additional cigarette machines in their cigarette factory.

Elizabeth City—Improvements.—The city will hold an election on September 8 to decide as to the issuance of \$10,000 of bonds for improvements.

Elizabeth City-Lumber Mill.-The Albemarle Lumber Co. is reported as putting new machinery in its lumber mill

Fayetteville—Machine Shops —Boston (Mass.) capitalists will, it is reported, erect new machine shops in Fayetteville.

Gibsonville-Flour Mill.-The Eureka Mill Co is the name of the stock company recently re-ported (under Gibsonville, S. C.) as being organported (under Gibsonville, S. Cized to erect a roller flour mill.

Goldsboro-Knitting Mill.-The Argus Knitting Mills has been organized by W. T. Yelver-ton, J. B. Edgerton and P. H. Joyner to operate the knitting mill lately mentioned.

Greensboro-Quarry.-W. P. Beall is preside of the Cane Creek Quarry Co., mentioned in la issue (under Cane Creek). assue tunuer Cane Creek). The company owns a whetstone quarry, and will erect machinery for working and finishing such stone.* The company owns a

Greensboro — Sewer-pipe. — Captain Troy, of Asheville, has received contract to furnish the 2 1/2 miles of sewer-pipe recently reported.

Hester-New Town, &c.-New York capitalists have, it is reported, purchased a tract of land between Hester and Loraine, and will build a new town, construct water works, erect an elec tric-light plant, etc.

High Point-Furniture Factory.- The High Point Furniture Factory is reported as to be

Monroe-Gold Mine.-C. W. Laney will proba bly develop a gold mine.

Mt. Olive-Lumber Mill.-Stewart, Hines & Co. have, it is reported, put new machinery in their lumber mill.

Raleigh - Rakery and Cracker Factory d cracker factory will, it is reported, be bakery and established.

Salisbury-Shuttle-block Factory.-Peacock & Barrier, of China Grove, mentioned in last issue, are crecting in Salisbury a shuttle-block and oke billet factory.

Swain County-Timber Land.-C. E. Graham Natt. Atkinson and J. M. Thrash, of Asheville, have purchased the Whittier timber lands of 70,000 acres, as stated in last issue, but have not decided what they will do with the property.

Tarboro-Oil Mill.-The Tarboro Oil Mills is reported as improving its cotton-seed oil mill and putting in new machinery.

SOUTH CAROLINA.

n-Furniture Factory.-The Enterprise Furniture Co. has been incorporated with W. F. Fox, president, and E. P. Sloan, secretary. The capital stock is \$10,000.

Beaufort-Canning Factory.--A Baltimore (Md.)
ompany will, it is reported, erect a canning factory in Beaufort.

Charleston-Fertilizer Factories.-It is run that two stock companies are being organized to erect fertilizer factories.

Columbia-Water Works.-The city expects to expend \$30,000 in building gates at the canal and building a new house for the water works ma-chinery. F. W. McMaster, mayor, can give information.

Columbia—Granite Quarries.—A. R. Stewart, lately reported as purchasing the granite and Quarry Co., of Nashville, Tenn., held a lease on the property prior to purchasing and expended \$15,000 on new machinery and other improvements.

-Oil Mill .- The Florence Oil Co., will put in a fertilizer mixer this winter, and contem plates adding a cotton ginnery next season.

Florence-Electric-light Plant.-The erection of electric-light plant is talked of.

Graniteville-Clay Lands.-J. A. Stothart, J. B. McMillan, T. A. Allen and others have organized a stock company to develop clay beds near Graniteville.

Greenville-Distillery.-The organization \$40,000 stock company to erect a whiskey distillery is talked of.

Greenville-Cotton Mill.-The Lan facturing Co. has enlarged its cotton factory and put in new machinery.

Greenwood-Handle, Hub and Spoke Factory, The Johnson Manufacturing Co., of Ninety-Six, will, it is reported, move its handle, hub and spoke factory to Greenwood.

Perry.—Canning Factory.—A. H. Salley has, it is reported, started a canning factory.

TENNESSEE.

Athens-Artesian Wells.-An Ithaca (N. Y.) ompany will, it is reported, sink artesian wells

Bristol-Land -The Fairmount Land Co. has been incorporated.

Bristol-Candy and Chewing Gum Factory. W. A. Ward will, it is stated, establish a co nd chewing gum factory.

Bristol-Cotton Factory.-W. A. Sparger is re-corted as putting new machinery in his cotton

Cardiff-Planing Mill.-Rutan & Frazer erecting a planing mill, as stated in last issue, a have contracted for machinery.

Chattanooga—Brewery.—It is stated that the Chattanooga Ice & Bottling Co., mentioned in last issue as to build a brewery, will increase its capital stock to \$100,000

Chattanooga-Brick-yard.-Winters & Nelse have, it is reported, started a brick-yard,

Chattanooga-Grate Factory.-The grate factory nentioned in last issue will, it is stated, be erected by a \$30,000 stock company organized by J. B.

Chattanooga.-Morris Schwerin, M. W. Platzek W. Brown and others have incorporated the idelity Coal & Iron Co. to build towns, purchase and improve property, etc.

Cowan-Iron Furnace.—The Tennessee Coal, Iron & Railroad Co., of Nashville, has, as lately stated, put its Suwanee furnace in blast.

Dayton-Brick-yard. - The Dayton Rails Land & Improvement Co. will, it is reported, es tablish a brick-yard.

Dayton-Coal Mines.-The Diamond Drill Co. is reported as prospecting for coal on the Stewar

Harriman-Sash, Door and Rlind Factory Harriman—Sash, Door and Blind Factory,— The Cumberland Manufacturing Co. has been or-ganized with Frederick Vates, president; Ferdi-nand Schumacher, vice-president, and R. W. Gates, secretary, to erect a sash, door and blind factory. The capital stock is \$500

Jackson-Iron Foundry,-The Jackson Foundry Association will, it is reported, erect a new build ing for its iron foundry.

Johnson City-Planing Mill.-The Harris-Weaver Building & Manufacturing Co. has been organized with C. H. Lyle, president; C. N. Brown, vicepresident, and C. P. Pence, secretary. It has archased the Frank Evans planing mill property

Martin-Planing Mill.—The Martin Planing Mill Co. has just put a new saw mill in its planing

Mossy Creek -Zinc Works.-The Edes, Mixter & Heald Zinc Co., of Clinton, is repairing and putting new machinery in its Mossy creek works.

South Pittsburg—Water Works.—J. H. Currey is president; F. P. Clute, vice-president, and H. M. Hyde, secretary, of the South Pittsburg City Water Co., recently reported. The capital stock

South Pittsburg-Grist Mill.-It is stated that the South Pittsburg Land, Mining & Manufactur-ing Co., previously reported, will establish a grist

Sweetwater-Pants Factory.-The organization of the stock company mentioned in last issue is proposed to manufacture pants instead of paints, as reported. J. F. Owen can give information if anything is done.

TEXAS.

Austin-Cement Works.-The capacity of the Austin cement works will probably be in

Brenham-Ice Factory.-The erection of another

Bryan-Bridge.-An iron bridge will, it is reported, be constructed over the Navasota river.

Claude—Artesian Well, &c.—A. T. Levy, of Denver, Colo., has, it is stated, purchased a 400-acre tract of land near Claude for \$25,000, is laying same off into town lots and sinking an arte

Commerce-Machine Shops, &c .- The St. Louis Arkansas & Texas Rallway (office, St. Louis, Mo.) has, it is stated, signed contract to erect machine shops and round houses in Commerce.

Dallas-Bridge.-Another bridge will, it is stated, be constructed across the Trinity riv

Dallas-Bridges .- The Missouri Valley Bridge & Iron Works has received contract to co two iron bridges near Dallas, one acro Trinity and the other across the Elm river

Dallas - Distillery. - The Southern Distilling Co., with a capital stock of \$150,000, has been in corporated by S. W. Goldby and others.

Denison - Viaduct. - In connection with mpany reported elsewhere in this issue as or ganized by W. B. Munson and Edward Perry to build a railroad, the city will construct a 1,000-foot viaduct over the yards of the Missouri, Kansas & Texas Railroad and the Houston & Texas Central Railroad.

El Paso-Electric-light Plant.-The El Paso Gas. Electric Light & Power Co., m ue, has contract to light the city for fiv

El Paso. - J. Christie, G. C. Fitzgerald and Leigh Clark have incorporated the Intern Smelting Co. with a capital stock of \$500,00

Fort Worth-Manufacturing.-A North Carlina party is investigating with a view to locate

Galveston-Tinware Factory.-The Galveston re Co. has be rated with a inware Co. has been incorporated with a al stock of \$75,000 by H. Marwitz and other

Galveston—Artesian Well.—T. W Jackson will receive bids until September 25 for the boring of the artesian well lately mentioned.

Harrisburg-Woodenware, etc., Factory.—The Harrisburg Manufacturing Co., recently reported, has T. J. Collins as president and J. G. Todd, secretary.

Hempstead—Water Works.—It is stated that vater works will be constructed. C. C. Amsler an give information.

Jefferson-Saw Mill.-Munday & Pratt are re rted as erecting a saw mill.

Lancaster-Rolling Mill.-L. F. White, John deckley and J. T. Ellis have incorporated the ancaster Rolling Mill Co. with a capital stock of

Mustang-Land.-The Santa Fe Im & Loan Co., of Santa Fe, is reported as havin purchased 3,500 acres of laud from Thomas Kin and F. M. Gilbaugh for \$35,000, and as to colonia

New Birmingham-Grist Mill, &c.-The Farmers' Alliance will probably erect a grist mill and other machinery at its cotton-yard.

Pendleton—New Town, &c.—It is stated that a syndicate has purchased about \$60,000 worth of iron and steel lands in Sabine county, and will build a new town to be called Irono.

Randall County-Irrigating .- The Hoffman Ir-

stock of \$5,000.

Robinson-Gin.—S. R. Wilkinson erected the

cotton gin lately reported. Rockport-Electric-light Plant,-Barlow & Mc ade the city a proposition to erect as electric-light plant.

Shelby County-Cotton Gin, &c .- A grist mill

and cotton gin is reported as being erected.

Temple—Electric-light Plant.—The Temple Electric Light Co. has received franchise to erect an electric-light plant, and awarded contract to the Heisler Electric Light Co. for a 1,000-light inlescent plant.

Terrell-Electric-light Plant.-The Terrell Elecric Light Co. is the name of the co ported last week as awarding contract for the erection of an electric-light plant.

Tyler-Bridge.-The bridge, lately referred to cross the Neches river near Tyler will be built

Waxahachie-Planing Mill,-A planing mill will, it is reported, be erected.

Wolfe City-Oil Mill,-The Wolfe City Cotton Seed Oil Mill is reported as increasing capacity.

VIRGINIA.

Basic City-Cigar Factory.-W. H. & W. M. Page, of Pennsylvania, will, it is reported, erect a cigar factory in Basic City.

Bedford City-Paint Factory.-Negotiations are pending with a New Jersey company for the es-tablishment of a paint factory in Bedford City. The Bedford City Land & Improvement Co. can

Bedford City - Mineral and Timber Lands J. M. Berry will probably organize a stock company to purchase and develop 36,000 acres of mineral and timber lands, on which he has an

Louisville, Ky., is reported as to start a brickyard in Big Stone Gap.

Bridgewater-Oil Well, etc.-The Bridgewater Land, Mineral & Improvement Co. is the he company reported as organized in last issue, and will receive proposals for sinking a well in search of oil, gas, etc

Buena Vista—Coal Mines.—A company with W. D. Rippetoe as president is, it is stated, prospect-ing on the McBride survey for anthracite coal.

ena Vista-Steel Plant.-It is stated that the capital stock of the steel plant previously menioned has been increased to \$750,000. The Bi lista Co. can give particulars.

Buena Vista-Boiler and Machine Shops.—The boiler and machine shops lately mentioned will, it is stated, be erected by A. K. Rarig & Co., of Columbus, Ohio. The foundry shop will be 125x 200 feet; a pattern shop, 50x200 feet; a smith shop, 50x100 feet; a machine shop, 125x300 feet; a boiler shop, 125x200 feet, and an engine-room, 40x70 feet.

Farmville—Car-coupler Factory.—The Collins Automatic Car-coupler Co. has been organized with W. G. Dunnington, president, and J. R. Martin, secretary, for the purpose of manufaing the Collins Automatic Car-coupler.

Staunton, will probably open iron Fishersville. Fishersville-Iron Mines.-Kinney & Terry, of

Glasgow—Brick-yard.—H. Jordan, of Stauwill establish, it is reported, a brick-yard.

Glasgow-Electric-light and Power Plant. Rockbridge Co., is making arrangements for the erection of an electric-light and power plant.

Glasgow-Stove Works.-It is stated that J. A. Whitman, of Columbus, O., and W. S. and A. C. Whitman, of Ironton, will erect a stove foundry

Lacey Springs-Flour Mill.-C. H. Nichola cted a 50-barrel fie

Luray Building Material, etc., Factory.—A \$150,000 stock company is reported as being organized to erect a building material, spoke, hub, &c., factory.

Luray—Improvement, etc.—The Luray law ment & Improvement Co. has been incorpora with F. W. Berry, president, and C. T. Holtzm secretary, to deal in real estate. The cap -The Luray Inve

Lynchburg - Zinc Works .- The Washington

Norfolk—Land.—The Norfolk Land Co. has been organized at Elberon, N. J., with J. H. Diagee, of Philadelphia, Pa., as president; A. J. Thom, of Norfolk, as vice president, and H. F. West, of Philadelphia, Pa., as secretary, to improve a tract of land surrounding Paradise Lake. The capital stock is \$3.000,000.

Norfolk - Stained Glass Factory. - Leonard Bush has started a stained glass factory, as reported in last issue.

Norfolk-Machine Shop.-N. H. Farquhar, Washington, D. C., will receive proposals ustil September 9th for the iron and steel work for machine shop extension at the U. S. navy-yard.

Pulaski City-Planing Mill.—It is stated that another planing mill will be erected.

Pulaski City-Flour Mill.-A stock company reported as organized to erect the flour

Radford—Knitting Mill.—J. N. Landenburg, of Eighth and Norris streets, Philadelphia, Pa., will Eighth and Norris streets, Philadelphia, Pa., will operate the knitting mill mentioned in last issue.

Richmond—Cigarette Factory.—Allen & Ginter ave put seven additional cigarette machines in their cigarette factory.

Richmond—Bridge.—The contract price for the iron and steel bridge, mentioned in last issue as to connect the properties of the Highland Park and North Side Land Companies, is \$73.931. It is to be completed February 1, 1891.

Roanoke-Steel Plant.-It is rumored that a \$5,000,000 company will erect a steel plant in the West End; probably erroneous.

Roanoke-Land.—The Mechanics' Home Land Co., with S. W. Jamison as president; H. S. Trout, vice-president, and J. M. Hart, accretary, has been incorporated to deal in real estate, etc.

Roanoke—Paper Mill.—W. M. Chatham, it is stated, is corresponding with a Northern party with a view to the establishment of a paper mill

with a view to the control of the Roanoke Roanoke Rolling Mill.—The Roanoke Iron Co., mentioned in last issue, awarded contracts for its 30 puddle furnaces and plate mill to the Lewis Foundry & Machine Co. and the Robinson Rea Manufacturing Co., both of Pittsburgh, Pa.

Roanoke—Bridge.—J. A. McConnell will receive bids until September 23 for the construction of the approaches to bridges over Randolph, Henry and Park streets.

-Cotton Factory.-It is rumored that a cotton factory will be erected.

St. Paul.-Iron Furnace.-An iron furnace will, it is reported, be constructed.

Valley View.-W. H. Beardsworth, of New Market, purchased the Valley View Springs property, as lately stated.

Vicars Switch-Coal Mines.-Myers Bros. are. it is reported, developing coal mines Virginia-Glass Factory.-Hunter & Rigby, of

Montgomery Springs, will probably build a gla factory at some point in Southwest Virginia. Waynesboro—Electric-light Plant.—The city has received a number of propositions for the erection of an electric-light plant.

WEST VIRGINIA.

Buckhannon-Electric-light Plant.—G. M. Plem ing is president and B. D. Bailey, secretary, o the Buckhannon Electric Light Co., recently re ported, and it has let contract for the erection o its electric-light plant to the Edison General Electric Co., of Pittsburgh, Pa. The capital stock is \$7,000.

Charleston-Scale Factory .- The Craig Sc Co. is reported as having enlarged its a

Hartmonsville—Saw Mill.—Wm. Moore, of Danville, Pa., is investigating with a view of erecting a saw mill in Hartmonsville.

Hartmonsville-Saw Mill.-Franklin Angle Pennsylvania, v Hartmonsville. ia, will, it is stated,

Mannington-Oil Well.—The Crain Oil Co. has been organized with T. M. Calvert, president, and W. S. Meredith, secretary, to sink an oil well on the McInturf farm.

Marion County—Coal Land.—A syndicate has, it is reported, purchased 6,500 acres of coal land in Marion and Monongahela counties for \$165,500. Prince-Coal Mines.-Coal mines are reported

as being developed. Union-Iron Lands, &c.-The Iron Range Co.
as been incorporated to purchase iron lands and
nanufacture iron. The capital stock is \$15,000.

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Wheeling.—The Paige-Carey Contracting Co. has been incorporated to succed Paige, Carey & Co. The capital stock is \$500,000.

Wheeling—Mining.—The Little Kid Mining Co., referred to in last issue as chartered by John McKeleye, of Grand Forks, N. D., and others, will operate mines in Montana.

BURNED.

Atlanta, Ga. - It is reported that the machine works of the Van Winkle Gin & Machinery Co. has been burned, with a loss of \$100,000.

Dyersburg, Tenn.—The saw mill of George Hay destroyed by an explosion.

Louisville, Ky.—The saw mills of C. B. Paul

Memphis, Tenn.—The paint and oil works of the Wright Paint & Oil Co.; reported loss over

Nashville, Tenn.-The colored high school

Wheaton, Ga.—The saw mill of W. S. Hawkins; reported loss about \$75,000.

Building Notes.

Asheville, N. C.—Hotel.—Frank Riggs, of Philadelphia, Pa., has secured contract for the erection of the Kenilworth Inn.

Atlanta, Ga —G. T. Stevens will, it is stated, erect a marble house to cost \$30,000 in Inman Park.

Atlanta, Ga.-Mrs. Richards Peters is reported as to erect a church for the Episcopalians.

Atlanta, Ga.-The Hibernian Society contem-

plates erecting a hall.

Atlanta, Ga.-Hunt & Lane, of Chattanooga,

Atlanta, Ga.—Hunt & Lane, of Chattanooga, Tenn., have prepared plans for the erection of the Second Baptist Church, previously reported as to be built. Bids will be received until September 10.

Augusta, Ga.—The Harmony Baptist Church contemplates erecting a new brick edifice. Rev. N. J. White can give information.

Augusta, Ga.—A \$to,000 stock company will probably be formed for tife purpose of erecting a c'utehouse on Tybee Island

Augusta, Ga.—The Equitable Building & Loan Association has been incorporated with a capital stock of \$500,000 by C. Phinizy, C. Goodrich, Joseph B. Cummings and others.

Baltimore, Md.—A building permit has been granted Charles Milske for the erection of 7 two-story houses on Collington avenue.

Basic City, Va.—The Presbyterians contemplate the erection of a church to cost \$8,000.

Basic City, Va.—Work has been commenced on a two-story building 50x100 feet for Bryan & Croll, of Harrisburg, Pa.

Basic City, Va — The Basic City Hardware Co. will, it is reported, erect about 100 five-room cot-

Bedford City, Va.—W. L. Poindexter is preparing plans for the erection of a new opera house and office building to be built on the property of the Bedford City Co.

Bedford City, Va.—The Norfo'k & Western Railroad Co. (office, Roanoke) has let contract for the erection of a depot to cost from \$12,000 to

\$15,000. Birmingham, Ala.—Work has been commenced on the Howard College building, previously reported as to be erected.

Bluefield, W. Va.-The Norfolk & Western Railroad Co (office, Roanoke, Va.,) has let contract for the erection of a depot to cost about

Brandenburg, Ky.—The Meade County Deposit Bank contemplates erecting a new building.

Buchanan, Va.-W. S Hook has secured contract for the erection of a three-story brick building, 27x60 feet, for Henry Felix.

Chattanooga, Tenn.—C. C. Auderson contemplates erecting a two-story brick building, 25x100 feet, to cost \$5,000.

Chattaneoga, Tenn.—The Chattaneoga Warehouse & Banking Co., lately referred to, will build a grain elevator with capacity for 500,000

Claude, Texas-Hotel.-A \$10,000 hotel is reported as to be built.

Clifton Forge, Va.—Faulkner & Cheadle, of Iron Gate, have secured contract for the erection of a Catholic church to be 34x60 feet.

Corsicana, Texas.—Contract will probably soon be let for the erection of the Cumberland Presbyterian Church previously reported.

Comanche, Texas.—J. D. Bonner, clerk county court, will receive proposals until September 17th for the erection of the courthouse mentioned in last issue.

Crystal Hill, Va. - A Methodist Episcopal church will be erected.

Dallas, Texas.—The Little Rock Granite Co., of Little Rock, Ark., has secured contract for the erection of the Dallas courthouse, previously mentioned, at \$86,000.

Dalton, Ga.—The Louisville & Nashville Railroad Co. (office, Louisville, Ky) will probably erect a passenger depot.

Decatur, Ala —The members of the First Methodist Episcopal Church South are contemplating the erection of a \$15,000 church. Rev. V. O. Hawkins can give information.

Elkhorn, W. Va.—The Norfolk & Western Railroad Co. (office Roanoke, Va.) will rebuild at once its freight depot reported in last issue as burned.

Galveston, Texas.—The Pauly Jail Building & Manufacturing Co., of St. Louis, Mo., has secured contract for placing 16 new cells and two bath rooms in the new jail at \$14,000.

Glasgow, Va.—Contract will probably be let for the erection of a block of business houses for Eggleston & Bouldin.

Grafton, W. Va.-Miller & Shackelford have secured contract for the erection of a business house for William Jennings.

G censboro, N. C.-The Rutherford College lately reported as burned, will be rebuilt at a cos

Greenville, Texas.—A local board of the National Building & Loan Ass ciation has been or ganized with V. N. Grubbs, president, and J. C. Teagarden, secretary and treasurer.

Greenwood, Miss.—The city intends building two schoolhouses from the proceeds of the sale of the bonds lately mentioned. T. P. Gibbs can give information.

Houston, Texas-Hotel.-The erection of a four-story family hotel is talked of.

Huntsville, Ala.—The building of an orphans' home is probable. The mayor can give information.

Jacksonville, Fla.—The members of St. Paul's Methodist Church will erect a church. Rev. J. B. Anderson can give information.

Jacksonville, Ala.—The county commissioners have purchased site for the erection of a 'ail and courthouse.

Jasper, Tenn.—Hotel.—A \$50,000 hotel will, it is stated, be built in the fall.

Jefferson, Texas.—It is reported that the Jefferson Opera-House Co. has received plans and specifications for a new opera house.

Knoxville, Tenn.—Plans are being perfected for the erection of a building to cost \$40,000 for R. S. Payne.

Little Rock, Ark.—J A. Henry, secretary building committee Masonic Temple, will receive proposals until September 15 for the erection of same.

Lynchburg, Va.—Hotel.—Otey, Walker & Bowyer are organizing a stock company to build the hotel reported last week, and when \$100,000 is subscribed the company will organize.

Lynchburg, Va.—The Park Avenue Land & Improvement Co. is reported as to build the ware-house reported in last issue as probably to be erected by the State Farmers' Alliance.

Macon, Ga.-Hotel. A new 100-room hotel, to be built corner of Third and Poplar streets, is

Memphis, Te n.—The Second Presbyterian Church contemplates erecting a structure at a cost of from \$75,000 to \$100,000. C. M. Heiskell can give information.

Middlesborough, Ky.-It is stated that contracts have been let by A. A Arthur for the erection of eight two story brick buildings for storerooms, and twelve cottages for residences at Arthur, a new town near Middlesborough.

Middlesborough, Ky.-Hotel.—It is reported that contract has been let for the erection of the Harrogate Inn at Harrogate. A. A. Arthur, of Middlesborough, can give information.

Milldale, Ky.-The Roman Catholics will build a new church,

Montgomery, Ala.—Hotel.—It is reported that preparations are being made for the erection of a \$100,000 hotel at Lee and Montgomery streets.

Morganton, N. C.-E. S. Walton contemplates erecting three brick stores.

Natchez, Miss.—H. B. Bruser has secured contract for roofing, steam heating, plumbing and gas fitting for the new hotel at \$8,000.

Newberry, S. C.—J. K. P. Goggans, secretary board of trustees, will receive proposals until September i for the erection of a framed school in accordance with the plans of Bruce & Morgan, of Atlanta, Ga., architects.

New Castle, Va.—Hotel.—Boyd & Daum have contract for the erection of the hotel previously reported as to be built by the New Castle Land & Improvement Co.

New Orleans, La.—Hotel.—A stock company will, it is stated, be organized to build the hotel in which William Blake was lately reported as interested. It is proposed to erect a hotel to cost \$750,000, and New York parties offer to furnish \$500,000 of that amount.

Opelousas, La.—Jas. H. Windrim, supervising architect, Treasury Department, Washington, D. C., will probably soon let contract for the erection and completion of a U. S. courthouse and postoffice building.

Paducah, Ky.—The erection of a Cumberland Presbyterian church is talked of.

Paris, Tenn.—J. N. Thomason, O. A. McSwain and others are arranging for the erection of a school building. \$16,000 bave already been subscribed.

Petersburg, Va. - The Odd Fellows' Association will, it is stated, erect a three-story hall to cost

Pikeville, Tenn.—Hotel, &c.—The Summer City Land & Improvement Co., mentioned last week, will, it is reported, erect a hotel and a number of houses at Summer City.

Pulaski City, Va.—Hotel.—The Pulaski Land & Improvement Co will, it is stated, erect the hotel previously mentioned at a cost of \$30,000.

Quanah, Texas.—The hotel lately reported as to be erected by the Quanah Hotel Co. is estimated to cost \$35,000.

Radford, Va.-The Countess Burdett-Couttes is

Radford, Va. Hotel.—Work has been commenced on a new hotel 123x116 feet to be built by the Radford Development Co.

Richmond, Va.—A Methodist Protestant church will be erected. Rev. W. M. Poisal can give particulars.

Richmond, Va.—The Grace Street Baptist congregation has let contract for the erection of a church to cost \$48,000.

Roanoke, Va.—The Presbyterians are contemplating the erection of a \$5 000 structure. Rev. Dr. Campbell can be addressed.

Roanoke, Va.—C. Ruehrrmund, of Richmond, has completed plans for St. Mark's Lutheran Church, lately mentioned, and will shortly let building contract. It is to be heated by steam.

Sewanee, Tenn.—It is reported that a new wing will be built to the University of the South at a cost of \$50,000.

Sheffield, Ala.—J. H. Chambers, J. T. Schley, G. N. Christy and F. N. Gustine are each erecting dwellings.

Sheffield, Ala.-W. J. Casey has secured contract for building the city hall previously reported.

Spartanburg, S. C.—E. A. Tissier has contract for the erection of the new Fidelity Loan & Trust Co.'s building.

St. Paul, Va.-Hotel.-A stock company has been, it is stated, formed for the purpose of erecting a \$20,000 hotel. Mr. Wilder can be addressed.

Sumter, S. C.—Dr. Mullins, regent of the South Carolina Lunatic Asylum, is looking for a suitable site for the erection of an asylum for the colored

Temple, Texas.—Work will soon commence of a new Catholic cathedral to cost \$30,000.

Tuscaloosa, Ala.—The Pauly Jail Building & Manufacturing Co., of St. Louis, Mo, has secured contract for the erection of a new jail at \$11,000.

Vernon, Texas.-Hotel.-Capt. Rudd is re-

Washington, D. C.—Lieut. Constantine Chase A. A. Q. M., will receive proposals until August 30 for the erection of a brick hospital.

Waterloo, Ga. (P. O. at Cedartown) - Hotel.-J T. Harris will, it is stated, erect a 200-room hotel

Wichita Falls, Texas.—The city has received plans from Dallas architects for the erection of a public school building to cost \$20,000. Bids are being received.

Wilmington, N. C.-P. Lineham & Sons, of Raleigh, have secured contract for the approaches, sidewalks, etc., to the new United States postoffice building at \$10,842.05.

Wilmington, N. C.—The Carolina Interstate Building & Loan Association has been organized with J. Wilder Atkinson, president; C. S. Tennent, secretary, and C. E. Borden, treasurer.

Winston, N. C.-Mr. Hamlin, of Philadelphia, will build a residence at a cost of \$5,000.

Winston, N. C.—The First National Bank will erect a three-story building 85x90 feet.

Winston, N. C.—Mr. Wheelwright, of Boston, has prepared plans for the erection of the hotel previously reported as to be built by the West End Hotel & Land Co.

Wytheville, Va.—J. C. Green and others will erect a building to be occupied by the Bank of Wytheville.

CONTRACTS have been closed for the building of a cotton mill to employ 600 hands, rolling mill, machine shop and foundry, handle and stave fac ory and a planing mill at the new town of Kensington, Ga., which is being developed by the Kensington Land Co., organized at Chattanooga, Tenn., with F. R. Pemberton, president. About 1,000 persons will be furnished employment on the completion of these enterprises.

Southern Apportionment of the Appropriations for River and Harbor Improve-

The bill making appropriations for the improvement of the rivers and harbors of the United States, which originated in and was enacted by the House, has since passed the United States Senate with many important amendments. In some of these amendments the House has refused to concur, and they are now under consideration of the conference committee of both bodies. The Senate bill appropriates for the improvement of harbors in the Southern States. and of rivers within them or serving as their boundaries, the large sum of \$7,763,650, which is divided among the States as follows:

	Harbors.	Rivers.	Total.	
Maryland	\$510,000	\$57.500	\$567,500	
District of Columbia.		300,000	300,000	
Virginia	156,000	370 500	526,500	
North Carolina	30,000	440,000	470,000	
South Carolina	183,000	117 500	300,500	
Georgia	460,000	442,500	902,500	
Florida	192,500	233,500	426,000	
Alabama	350,000	289,000	639,000	
Mississippi	9,000	117.500	126,500	
Louisiana		389,000	389,000	
Texas	840.0.0	63,150	903,150	
Arkansas	******	283,500	283 500	
West Virginia		441,500	441,500	
Kentucky		593,000	593 000	
Tennessee		868,000	868,000	

\$2,730,500 \$5,006,150 \$7,736,650

Note,—In several States like Kentucky, West
Virginia and Arkansas, while the entire appropriation is nominally credited to them, portion
of the money will be expended in adjoining States.

In these 14 States and the District of Columbia the total appropriations are:

In addition to the foregoing there is one item of appropriation which the Senate substituted for the section that originally passed the House. The Senate's substitute is as follows;

(128) Improving Mississippi river from the head of the passes to the month of the Ohio river, including salaries, clerical, office, traveling and miscellaneous expenses of the Mississippi River Commission: Continuing improvement, \$3,500,000, which sum shall be expended under the direction of the Secretary of War in accordance with the plans, specifications and recommendations of the Mississippi River Commission, for the general improvement of the river, for the building of levees, for surveys, for work at the harbors at Hickman, Ky., at New Madrid, Mo., at Helena, Ark., at Greenville, Vicksburg and Natchez, Miss, at New Orleans, La., at the head of the Atchafalaya and the mouth of the Red river, and at other localities in such manner, to such extent, and in such proportion as in their opinion shall best promote the interests of commerce and navigation.

Should this substitute be adopted Congress will have made a most important change for the better in economizing the work of improving the lower Mississippi. Whatever other changes may ultimately be made in this act, it is to be hoped that section 128 will remain intact.

THE announcement of the death of Frederick A. Leigh, senior partner of the firm of F. A. Leigh & Co., of Boston, Mass., has occasioned much regret among his many friends. He was a great favorite with the mill agents in this country and was well known as far south as Mexico. Mr. Leigh was an Englishman, but had lived in Boston 25 years, representing several of the leading machine makers in England.

THE SOUTH'S PROSPERITY.

[Additional Letters from Bankers, continued from page 11.]

Aiken's Progress.

AIKEN COUNTY LOAN & SAVINGS BANK, AIKEN, S. C., August 25th, 1890.

Successive good crops in this section have put the farmer in good shape, and that means nearly everything in this agricultural county, but aside from this, we have reason to congratulate ourselves, for if our county is taken just as an example and the improvements of the last three years mentioned, it would read like this Two banks started with capital of \$50,000 each; seven or eight new companies for the mining and manufacturing of kaolin; several new saw mills have been put up extensive additions made at the cotton mills and two new ones projected; a l rge wood pulp mill, used in connection with the Baltimore Paper Mills; two land improvement companies with large capital, and last, but not least, an entirely new industry, the manufacturing of pine straw into bagging, floor cloth, mattress filling, etc. This was started about a year ago in a small way, and the result so gratifying that the old mill has been practically pulled down and a new one of treble its capacity will soon be operating in its place. These are a few only of the actual planting of capital for developing natural resources but it will all be overshadowed by what will happen when the aluminum age begins, Aiken county clays con:ain on an average about 35 per cent. Aiken has the endorsement of the world as a health resort.

J. W. ASHHURST, Cashier. General Activity.

STATE BANK OF COMMERCE, HENDERSONVILLE, N. C., Aug. 26, 1890. At no time since the termination of the late war has there been so much activity in business as now. While we do not raise cotton in this section (being at an altitude of 2,252 feet above tidewater), we do raise the finest wheat, corn, oats, cabbages and potatoes, both sweet and Irish, that are produced in the South. Our cabbages are especially fine, and already thousands upon thousands of heads have been shipped to Columbia, S. C., Augusta, Ga., and other points. The financiaal condition of our farmers is good; indeed, better than for many years, and an abundant crop of every staple product grown here is now assured. The progress of Hendersonville during the past few years has been phenomenal, both in population and appreciation in value of property. Lots that were bought two years ago for \$100 sell readily now for \$300 to \$500. Four hundred residence lots were put upon the market a few days ago, and 8,000 people from nearly every State in the Union attended the sale, which continued for four days. At the expiration of the time every lot had been sold, and still the demands of persons for homes here were unsatisfied. To sum up, let me say that I know of no place where capital would be more certain of good results than here. A \$100,000 hotel would just now pay an enor-

mous dividend. GEO. H. P. COLE, Prest, "At the Right, in Front."
FRONT ROYAL, VA., August 25, 1890.

Our beautiful valley is responding nobly to the pronounced activity of the South, and our immediate section is "at the right, in front." The influence of the remarkable development of the two principal towns in Warren county, Front Royal and Riverton, is felt throughout the entire county, and is creating an interest in farming and mineral lands that must necessarily bear good fruit. While the crop of cereals in this section is not particularly large, the enhanced value of almost all farm products is not without decided encouragement to the producer, and we are pleased to note unmistakable evidences that the farmers are growing more independent of both the ney-lender and the long-credit storekeeper. The evident desire of various

railroad companies to penetrate this section; the activity of prospectors for minerals, and the revelation of their success ful results; the numberless inquiries of manufacturers, investors and home-seekers, and in a greater degree than all, perhaps, the cheerful confidence of our own people, indicates the rapid development of our resources, a great increase of business activity, and the desirability of our own section and the whole South as a broad field for legitimate investment and enterprise.

JAS. A. SOMMERVILLE,

Cashier Front Royal National Bank. Outlook Extremely Bright.

MOOREHEAD BANKING Co. DURHAM, N. C., August 25, 1890. The outlook for this section is extremely bright. We have the finest crop prospects ever seen in this section, and that is saying a great deal for this bright tobacco belt It is not at all unusual to hear the farmers say that they will realize from \$300 to \$600 net profit per acre for their crops of tobacco now being gathered, and it is claimed that this is the most economical raised crop ever produced, and that, with the fact that they are unusually good, will give our people considerably more cash, which will stimulate prices of real estate both in country and town. Our city was never in a more prosperous condition; its future brighter than ever before. All of our people have made money this year, and are entering into new enterprises with greater zest than ever, even for this enterprising people, and I confidently expect, from what I know of the situation, to see greater strides in development and improvement in the next twelve months than was ever witnessed in this section; in fact, the outlook for all branches of business is all that could be desired.

W. M. Morgan, Cashier.

Remarkable Progress of Danville.

COMMERCIAL BANK OF DANVILLE, DANVILLE, VA., August 26, 1890.
The best way of showing the progress of

a section of the South is to state what it was and now is. When I came to Danville, over six years ago, the population was about 8,000, It is now 16,000, and with North Danville, just across Dan river, it is from 20,000 to 21,000. Danville is not one of the "boom towns," but our growth has been steady, and whilst property has advanced from 50 to 100 per cent., it may be said to be still low, and that the next twelve months will see a much greater advance During the year 1889 the improvements in new buildings was about a quarter of a million dollars; up to this time it must be as much if not more. The two land companies are spending much money in improvements. Tobacco being our principal industry, we can show very rapid strides, the number of establishments engaged in that trade is from 160 to \$75. The sales of leaf tobacco run from thirty to forty million pounds annually, against half that quantity a few years ago. In 1889 our manufacturers sold 2,251,771 pounds more than in 1888, and in this year for seven months they have sold 624,903 pounds more than in 1889. The crop just sold has been a short one in pounds, but has brought in more money. This has given the farmer more money and larger profits, which has enabled him to get out of debt, and in some cases improve his farm. The growing crop is said to be a very fine one as a large farmer remarked, "it is just splendid and will bring big money." Now, whilst tobacco is the principal industry, it is not the only one; our two cotton mills turn out annually from 14,000,000 to 15,000,000 yards of goods, for which they find ready sale. We have also iron foun dries, machine shops, planing, flour and grist mills, besides many small enterprises. Being in easy distance of the fine iron mines of Pittsylvania, Franklin and Patrick, it will not be long before many new enterprises will be started. The completion of

the Atlantic & Danville Railroad from Norfolk has been a great relief to our mer chants, who are now doing well and making money. There have been no failures of any consequence among them. Many of our people have returned from the "boom towns" with large profits. I think I may say the city of Danville is prepared for such prosperity during the coming year as she has never seen. And why, you may ask? For the reason that her merchants are in good spirits, the farmers throughout the section tributary to Danville have good crops and some money to invest, and, besides, this city has everything that a large city would require, such as more paved street, more gas and water pipes than any place of its size, electric lights and electric street-car line, fine sewer system and more wealth per capita than any other city of the South, and we invite all to come and enjoy our prosperity. J. L. WARING, Cashier.

Continued Growth of Dallas.

DALLAS, TEXAS, August 21, 1890. Editor Manufacturers' Record:

During the past week a New Orleans firm had a representative here looking over the ground with the view of establishing an extensive plant for the manufacture of artificial building stone and pavement. The great amount of building which is continually under way in Dallas, and the large volume of improvement carried on in the adjacent country towns, insures the success of this enterprise from its beginning. And so it is with all new enterprises turning out staple products, which find a constantly growing demand in a country that is being settled more rapidly to-day than any other favored spot in America.

Work has been rapidly pushed this week on the numerous enterprises, a resume of which I gave in my last letter. Armies of workmen are employed, and the scale of wages is as high as the scale paid in any city in the Union, all things considered.

Real estate continues to change hands at advanced prices and values to climb upward. The assessment for the city fiscal year of 1889-'90 furnished values amounting in round numbers to \$22,000,000. This year the assessment re ches \$32,000,000. This includes only the property in the city limits. It takes no account of the handsome values in the suburban districts which unfortunately are not embraced in the city proper, although the boundaries were extended two years ago. But the growth of Dallas is not measured by extended limits. The line of city houses and rapid transit has reached far beyond prescribed bounds.

Every line of business and every enterprise in the city attests rapid growth. The bank clearings last week showed an increase of 21 per cent. over the clearings for the corresponding week last year. The postoffice business during the past month gave 23 per cent. increase in a twelvementh.

The Manufacturers' Aid & Improvement Co. is having a number of cottages for homes of factory employes erected on the manufacturers' reserve in North Dallas. The company's plan of giving free sites to factories is proving to be a powerful factor in the material prosperity of Dallas.

IF you contemplate starting a new enterprise of any kind, whether it be a railroad, an iron furnace, a rolling mill, a machine shop or foundry, electric-light, water or gas works, saw mill, planing mill, furniture factory, fertilizer factory, cotton mill, or anything else requiring machinery of any description, send particulars to the MANUFACTURERS' RECORD. A postal card giving character of enterprise and kind of machinery wanted will be all that is needed. It will prove of great benefit to you.

THE MISSISSIPPI RIVER.

Report of the Commission Created in 1879.

[Written for the MANUFACTURERS' RECORD.]
The first levees on the banks of the Mis-

sissippi, as heretofore stated, were built by the Spanish settlers of New Orleans, other colonists following their example. It will be remembered that after the Louisiana purchase the people of that State and of Mississippi and Arkansas continued to maintain those already existing and to construct others at points that needed to be guarded. This they did at first and for a long time afterwards by their own labor and at their own cost, but they were eventually aided by a valuable grant of public lands. There was unfortunately always a question as to the constitutionality of making appropriations from the national treasury for the construction of levees. It was argued that the purposes of their erection were to benefit individual land owners both by keeping their plantations from inundation and also by enabling them to increase the areas of their holdings, and that, such being the case, it was contrary to the constitution and an actual wrong to expend public money for the aggrandizement of individuals. "Let those who are to be benefited by the levees build them and keep them in repair" was the cort reply usually made to all who sought to influence Congress to appropriate money for work on levees. While there were civil engineers and experienced river men who contended that levees were essential to the navigation of the river during its high-water stages that at such times it could not be "easy and safe" without them, yet these were but a minority of those who were regarded as well informed on the subject, and their opinions had for a long time but little influence upon public opinion, which, deluded by the oft-reiterated charge that all propositions for government assistance in levee building were originated by land owners and land speculators, was decidedly opposed to spending public money for any such purpose. But by slow degrees the truth gained such recognition and popular acceptance that in 1878 General Humphreys, the chief of the Engineer Corps, U. S. A., in the course of his instruction to the "Board of Engineers for the Improvement of the Mississippi River," invited it "to the consideration of the effect of a permanent levee system throughout the length of the river below the mouth of the Ohio, not only upon its low-water navigation, but also of the benefits it would confer in affording protection and giving needed facilities to shipping, commerce and navigation in the high stages of the

The investigations made by that board furnished much new information that had its effect upon Congress and the country, and doubtless contributed materially to the passage of the law approved June 28, 1879, creating the Mississippi River Commission.

Some of the duties of that commission (see section 4 of the act in preceding paper) were "to take into consideration and mature such plan or plans and estimates as will correct, permanently locate and deepen the channel and protect the banks of the Mississippi river; improve and give safety and ease to the navigation thereof; prevent destructive floods; promote and facilitate commerce, trade and the postal service."

The foregoing instructions plainly implied that Congress expected this commission to study the river and its tributaries with the purpose of ascertaining whether it was practicable to overcome the instability of the river from the caving of its banks, which the commission of army engineers of 1878 pronounced "the great obstacle to the improvement of the low-water

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navigation and to maintaining a levee sys-They also said in their report: "When this can be overcome by means not inordinately expensive, we may expect a deepened channel, a lowered high-water surface, and a stable river, the margins of which shall be securely cultivated, to the enormous development of the wealth and population of the region. We believe, therefore, that the levee system, if undertaken, should be matured and developed in connection with the navigation improve-In thus referring to the "enormous development" that would result from the improvements suggested, the commis sion had in mind the estimate made by General Abbott, of the United States Army Engineer Corps, who said:

"The total area of the bottom lands is about 32.000 square miles, of which a mere narrow strip along the main stream and its principal tributaries and bayous has been heretofore open to cultivation. Protected against the river and properly drained, this would render available at least 2,500,000 acres of sugar land, or more than double the amount heretofore planted; about 7.000,000 acres of the best cotton land in the world, capable of yielding a bale to the acre, and not less than 1,000,000 acres of corn land of unsurpassed and inexhaustible fertility.

Soon after the appearance of the act of 1879, the commissioners who were appointed were called together and promptly organized and entered upon their duties. first commissioners were: Genl. O. A. Gilmore, U. S. A., president; Genl. C. B. Comstock, U. S. A.; Major Chas. R. Suter, Engineer Corps U. S. A.; Mr. Henry Mitchell, Coast and Geodetic Survey; Capt. James B. Eads and B. M. Harrod, civil engineers, and Hon, Benjamin Harrison, of Indiana, now President of the United States. Congress had appropriated \$175,000 for the expenses of the commission.

On the 6th of March, 1880, "a preliminary or partial report" of this commission was transmitted to the Secretary of War accompanied by separate statements singed by General Comstock and Commissioner Harrison, who dissented from some of the theories advanced by the majority of their colleagues, but concurred with them in all their main propositions. The principal report states that the commission organized in Washington, August 19th, 1879, and at once "took into consideration 'the surveys of the river already in progress' and 'such additional surveys, examinations and investigations-topographical, hydrographical and hydrometrical'-as seemed necessary to carry out the objects of the act of Congress." The report recites the details of the work that the commission decided to enter upon, but because of the prevalence of vellow fever in the lower Mississippi, the parties detailed for duty in that region could not operate there until late in the season. Notwithstanding this delay a large amount of work was done and much valuable data collected, not enough, however, to warrant the commission in submitting a full report in detail, with estimates of final cost "upon any general system of river improvement." About one of the systems named in Section 3 of the act the commission entertained decided opinions. This was the "outlet system," which had and still has many warm advocates. Of this the majority report says that it "being one of diffusion and waste and not of concentration, does not commend itself to the judgment of the commission." The reasons leading to this conclusion were given with much clearness and force, but as substantially the same arguments were more fully stated in the admirable communication of Captain S. S. Leach, U. S. A., published in the MANUFACTURERS' RECORD of August 16th, they need not be repeated It is sufficient to say that the majority report, after a full discussion, declares the "outlet system" to be "quite impracticable."

Of levees, the same report says: "Levees have never been erected upon the banks of the Mississippi river except for the special purpose of protecting the alluvial lands from overflow. They have, therefore, always had sole reference to the highwater stage, and the degree to which levees might prudently be relied upon 'to improve and give safety to navigation, 'promote and facilitate commerce, trade and the postal service,' has not hitherto entered into the question of the construction and maintenance of a levee system.' After picturing the effect probably proby the levees first built, and stating that between 1850 and 1858, when those then existing were then at their best, the report says

"While it is not claimed that levees in themselves are necessary as a means of securing ultimately a deep channel for navigation, it is believed that the repair and maintenance of the extensive lines already existing will hasten the work of channel improvement through the increased scour and depth of river bed which they would produce during the high-river stages. They are regarded as a desirable, though not a necessary, adjunct in the general system of improvement submitted.

It is obvious that levees are, upon a large portion of the river, essential to prevent destruction to life and property by overflow. They give safety and ease to navigation and promote and facilitate commerce and trade by establishing banks or landing places above the reach of floods, upon which produce can be placed while awaiting shipment and where steamboats and other river craft can land in times of high water.

In a restricted sense, as auxiliary to a plan of channel improvement only, the construction and maintenance of a levee system is not demanded. But in a larger ense, as embracing not only beneficial effects upon the channel, but as a protection against destructive floods, a levee system is essential, and such system also pro motes and facilitates commerce, trade and the postal service.

A levee system aids and facilitates the postal service by protecting from injury and destruction by freshets and floods the various common roads and railways upon which that service is conducted to and from the river bank, and generally within that portion of the alluvial region subject to overflow. Moreover, the permanent maintenance below Cairo of a connected levee system, a system of sufficient strength to inspire confidence in its efficiency, or the demonstration, by the achieved results of an improved river, that overflow need no longer be seriously apprehended, would act as a prompt and powerful stimulant in rapidly developing a largely increased trade and commerce in all the products of agricultural industry indigenous to that region, and in those branches of manufacturing enterprise related thereto.

The foregoing is submitted as the opinons of this commission with regard to the attributes and functions of levees, and their general utility and value. The views of the several members, however, are not in entire accord with respect to the degree of importance which should attach to the concentration of flood-waters by levees, as a factor in the plan of improvement of low-water navigation, which has received the unanimous preference of the commission.

This preliminary report recommended a general plan of improvement which comprised-one, contraction of the water-way to a comparatively uniform width of about 3,000 feet below Cairo; two, protection of the caving banks by the "jetty system;" three, the closure of deep channels or lowwater chutes with the view of confining the flow to a single passage. These were recommended because work already done on the Mississippi and Missouri rivers had demonstrated their utility.

The report also contained estimates of the cost of certain initial works constituting a component part of the general system recommended by the commission. included the probable cost of the plant that must be created as well as the cost of labor and materials, but the commission was careful to state that "further appropriations will be needed to complete the works, secure their permanence, and develop the full benefit of the system." "The final cost," said the report, because of "the novelty of the devices to be employed, and the absence of experience with respect to the rapidity and degree of their results," could not be exactly estimated.

The concluding paragraph of this report contained a suggestion notable alike for its novelty and its wisdom. It was as fol-

"We venture to suggest further that, in case the commission should be continued in existence and the works recommended by it be in whole or in part authorized by Congress, the execution of the work and the expenditure of the appropriations therefor shall not be made part of the duty of the commission. We think the duties of the commission should be limited to the preparation of plans, their modification when necessary, the advisory supervision of the work, and the completion of the surveys and observations. This would secure unity of plan, greater efficiency in the work, and a better system of checks upon the expenditures than we could hope to secure if the entire work of devising, executing and disbursing were cast upon the commission."

This suggestion was without precedent. High military and civic officials and eminent citizens selected as a commission for the planning and prosecution of an immense national work had the wisdom to recommend that the expenditure of the vast appropriations that should be made during its continuance should be assigned to others, because "this would secure unity of plan, greater efficiency in the work and a better system of checks upon the expenditures." Whether or no it was the intention of the commission, in making this suggestion, to inspire greater confidence in its plans and propositions by showing that it desired to be relieved from all financial responsibility, the suggestion assuredly had that effect. It inspired public confi dence in the commission and its measures and in due time Congress approved the plans and made appropriations to carry them into effect.

THE Century Magazine for September contains: Portrait of the Princess de Conti; The Women of the French Salons, V. by Amelia Gere Mason; Features of the Proposed Vosemite National Park, by John Muir-pictures by J. A. Fraser, Thomas Moran, William Keith, A. B. Davies, by sketches, and from photograph by George Fiske: Our New Naval Guns, by Commander C. F. Goodrich; The Anglomaniconclusion; Present-Day Papers-The Social Problem of Church Unity - by Charles W. Shields, D. D.; Lois Benson's Love Story, by Anne Page; Souvenirs, by Lloyd McKim Garrison; The Autobiography of Joseph Jefferson, XI, by Joseph Jefferson-with portraits and drawings; Wells Cathedral, by M. C. van Rensselaer Iefferson--pictures by Joseph Pennell; In the Marble Hills, by Rowland E. Robinson-pictures by J. A. S. Monks; An Artist's Letters from Japan, by John La Fargepictures by the author; September, by Ella Wheeler Wilcox; Friend Olivia, XI, by Amelia E. Barr: Love's Dream, by John Hay; How California Came Into the Union, by George Hamlin Fitch, and other articles of much interest.

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If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Baking Machinery.-J. L. Saddler, Hagers. town, Md., wants to correspond with partie

Barrel Machinery .- McMillan & Drefus, Winchester. Ark., will purchase tight and slack b

ery.
r and Engine.—W. E. Logan, Asheville, Boiler and Engine.—W. E. Logan, Asheville, N. C., will purchase a 35 to 40 horse-power boiler and engine

Brass Furnaces. - The Atlas Iron & Brass Works, Kaukauna Wis., is in the market for improved brass furnaces.

Cars.-The Soddy Coal, Iron & Railway Co., hattanooga, Tenn., will purchase mining cars. Cupolas.—The Atlas Iron & Brass Works, Kaukauna, Wis., will purchase iron cupolas.

Derrick.—Satsuma Lumber Co., Satsuma, Fla., wants prices on a derrick to haul cypress saw ogs 600 feet out of swamp.

Dynamo.—The Atlas Iron & Brass Works, Kaukauna, Wis., is in the market for a dynamo. Electric-light Plant, etc.-R. L. & J. H. Holt, Jr , Burlington, N. C., want estimates for lighting their cotton mill by electric light or gas.

Engine .- J. L. Saddler, Hagerstown, Md., wants 6 horse-power portable engine.

Furniture, Factory.-W. H. Morris, Birm ham. Ala., will purchase some machinery for a

turniture factory.

Heating and Ventilating Apparatus.— Lieut.

Constantine Chase, A. A. Q. M., Washington, D.

C., will receive proposals until August 30 for furnishing the Smead system of heating and ventilating apparatus for the hospital at Washington,

Heating Apparatus, Cranes, etc.-The Iron & Brass Works, Kaukauna, Wis., will pur chase heating apparatus, traveling and jib

cranes, etc.

Iron and Woodworking Machinery.

Works Kankauna, Wi ron & Brass Works, Kaukauna, Wis., is in the market for iron and woodworking machinery.

Lathe and Key-seater.-W. C. Codd, 2010 and o12 Aliceanna street, Baltimore, Md., wants a Davis key-seater and a 50-inch swing eng

Laundry.-Clark & Browder, care I. G. Clark. Russellville, Ky., want the address of a turers of machinery for a steam laundry.

Mining Supplies,—The Soddy Coal, Iron & Railway Co., Chattanooga, Tenn., will purchase general mining supplies.

Paint Factory. - W. G. Crosby, Cartersville, Ga., wants prices on a 25-gallon hand-power paint mixing machine and a paint grinder.

Peanut-cleaning Machinery .- The Smithfield Farmers' Alliance will want machinery for a nut-cleaning factory.

Phosphate Mining.—The Boca Grande Phos-hate Co., J. W. Bushnell, general manager, Jack-onville, Fla., will purchase at once a complete plant for phosphate mining.

Phosphate Mining.—The J. R. Tysen Co., Limited, Jacksonville, Fla., may be in the market in ar future for a large quantity of machinery

Pump.-M. P. Godfrey, Minneola, Fla., wants a

duplex steam pump.

Rails.—J. E. Boggs, Pickens, S. C., will want prices on rails for dummy line 7 miles long.

Rails and Wire Rope.—The Soddy Coal, Iron & Railway Co., Chattanooga, Tenn., will purchase railroad iron and wire rope.

Rolling Stock .- J. E. Boggs, Pickens, S. C., will want prices on rolling stock for dummy lin

Rolls and Roofing.-W. E. Logan, Asheville N. C., will want one stand of rolls for fl ofing for sam

Shafting, Belting and Pulleys .- Rutan & Fraser, Cardiff, Tenn., will purchase shafting, beltin and pulleys.

Shingle Machinery.—The Satsuma Lumber Co., Satsuma, Fla., wants prices on shingle machiners with capacity for about 12 or 15 M feet per day also a shingle pointer.

Stoneworking Machinery.—The Cane Creek Quarry Co., Greensboro, N. C., will purchase machinery for working and finishing whetstone. Sugar Factory.-A. Wichers, San Antonio, Fla., wants sugar-cane rollers, centrifugal piping, fill-

Wookworking Machinery.-George E. White, Madison, Fla., will purchase a gang lath mill and bolter, shingle mill, wobdcutting machine, etc.

ings and tangs.

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PROPOSALS.

PROPOSALS.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., on or before a o'clock P. M. on the 19th day of September, 1800, for all the labor and materials required in the erection and completion of the U. S. Postoffice building at Watertown, N. V. (heating apparatus not included) in accordance with the drawings and specification, copies of which may be had on application at this office or the office of Superinchedent at Watertown, N. Y. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time herein stated for the opening of the same, also bids which do not comply strictly with all the requirements of this invitation. Proposal marked "Proposal for the Erection and Completion (except heating apparatus) of the U. S. Postoffice building at Watertown, N. Y., and addressed to JAS. H. WINDRIM, Supervising Architect. August 20th, 1890.

August 20th, 1890.

EALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., on or before 2 o'clock P. M., on the 8th day of September, 1890, for all the labor and materials required for the excavation, concrete foundations, stone and brick work of the basement and area walls of the U. S. Postofice, Courthouse, &c., at Troy, N. Y., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Troy, N. Y. Bach bid must be accompanied by a certified check for \$400. The Department will reject all bids received after the time hereis stated for the opening of the same, also bids which do not comply strictly with all the requirements of this invitation. Proposal mant be esclosed in an envelope, sealed and marked "Proposal for the Excavation, Concrete Foundation, Stone and Brick Massonry for the Basement and Area Walls of the Postoffice, Courthouse, &c., at Troy, N. Y., "and addressed to JAS. H. WINDRIM, Supervising Architect.

August 21st, 1890. August 21st, 1890.

JAS. H. WINDRIM, Supervising Architect.
August 21st, 1850.

PROPOSALS WANTED.—Up to 1s o'clock August 30, 1850, proposals will be received for the erection of a new Courthouse in Spartasburg City, South Carolina. Proposals will be scaled and directed to Joseph M. Elford, county commissioners clerk, Spartanburg, South Carolina, marked Proposal for New Courthouse. Proposals will be for the furnishing of materials, except as modified herein and building the entire attructure complete, according to plans and specifications. The right is reserved to reject any or all proposals and to waive formalities. The successful bidder will be required to give bond to the full amount of the contract, and to enter upon the work immediately after the perfection of contract, bond, &c. Payments will be made in cash as follows: 80 per cent. of the value of the work done and put in place in the building in an acceptable manner, as the work proceeds. Plans and specifications can be seen and all necessary information can be had at the office of the clerk of the county commissioners, Spartanburg, S. C., or McDonald & Bross, architects, Louisville, Kentucky. All information, or work, or materials indicated by the drawings and not shown in the specification, or vice versa, will be performed as fully as if laid down in both. Should any parts of the drawings and specifications conflict with other parts, contractor will make report to the architect, and get instructions as how to proceed. Each contractor is expected to read over the entire specifications; this also applies to subcontractors. By order of the Board of County Commissioners, held at Spartanburg July 28th, 1850.

Attest: Chairman or Society JOSEPH M. ELFORD, Clerk of County Com'rs, Spartanburg, S. C.

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Five Single Surfacers. Three Double Surfacers, Three eight-inch Matchers (four-sided).

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ALL SECOND-HAND. Send for full list e Surfacers.

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FOR SALE.

- 1 20-in, swing Engine Lathe, 14-ft. bed. 1 14-in, swing Engine Lathe, 7-ft. bed. 1 15-in. Crank Shaper.

- 1 24-in. B. G. Drill Press.
- Water Grinder.
- 28 in. x 28 in. x 7 ft. Planer.

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Second-Hand Machinery Cheap.

- 18-H.P. Portable Engine and Boiler, on wheels.
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 1 No. 1 Universal Grinding Machine. B. & S.
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 1 No. 2 Universal Grinding Machine. B. & S.
 1 No. 2 Universal Grinding Machine. Bement.
 1 No. 3 Wow-Spindle Profiling Machine. Bement.
 1 Set 10 in. x6 ft. Power Bending Rolls.
 1 Trip Hammer.
 1 No. 3 Universal Miller. Brainard.
 1 No. 3 Universal Miller. Brainard.
 1 No. 2 Lincoln Pattern Miller.
 1 No. 1 Plain Miller. Brown & Sharpe.
 1 Horizontal Drilling Machine.
 1 Set 12 in. x10 ft. Power Bending Rolls.
 Write us for what you want and send description of Machinery that you wish to trade or sell.

THE J. A. MACKINNON MACHINERY CO.

AT A BARGAIN.

25 D. & B. 36-in. Roller Cards. Suitable for yarn or batting. Good condition.
 2 Lappers, Kitson & Platt. Both have scratchers and beaters, double roll eveners. First-class

and beaters, double roll eveners. First-class machines for waste.

3 Latest Van Winkler Openers.

1,000 feet ½, 1-15, 1-11 Shaftung Coupled.

400 feet Card Platforms, with three long aprons, floor stands, gears, heads, condensing rolls.

Boston Blower and Heater, 2,500 feet pipe, 6 drying beds, Uhlinger steam hydro-extractor, 2 large dye tubs, 1,000 feet 1½ steam pipe.

50 0-in. Dodge Wood Split Pulleys.

50 Dodge Wood Split Pulleys, various sizes.

4 Cone Pulleys.

Cone Pulleys.
Power Presses.
Babcock Fire Extinguishers, hangers, balance
valves, valves, guages, mixers, tubs, iron fire

valves, valves, guages, mixers, the valves, valves, guages, mixers, the buckets.

40 Double Flange 5 in. 1-15 Iron Pulleys. In fact, about three complete outfits suitable for batting, etc. The whole, or any portion, will be sold at a price to induce bona fide purchasers to buy. Can be seen at any time.

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620 Atlantic Avenue,

Bargains in Machine Tools.

We have the following Machine Tools, taken mainly in exchange for those of our own manufacture. We will sell them low.

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- LATHES- Second-hand.

 4 9-in. x 2ft. P. & W. Bench Hand Lathes. G. Order.

 2 10-in. x 2ft. P. & W. Bench Hand Lathes. "

 1 10-in. x 2ft. 6 in. P. & W. Bench Turret Lathe. "

 1 18-in. x 6 it. Lathe.

 18x 1 & & M. Lathe.

 18x 1 & & M. Lathe.

 20x 8 Ames Lathe. Good Order.

 20x 13 Harris Lathe. Fair Order.

 24x 16 Curtis Lathe. Fair Order.

 24x 16 Curtis Lathe. Fair Order.

 26-in. Stevens Pulley Lathe. Fair Order.

 40x 15 ft. 6 in. Lathe. Good Order.

PLANERS-Second-hand

10-in. Traveling Head Shaper. Good Order. 15-in. Hendey Shaper. Good Order. 20-in. Smith & Co. Shaper. Nearly New. Planer 42x4x4. Good Order. 34x30x9 New Haven Planer.

MISCELLANEOUS-Second-band MISCELLANEOUS—Second-hand.

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1 24-in. Drill Press. Good Order.

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1 Blacksmith Drill Press. Good Order.

1 Standish Foot-Power Hammer. New.

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Good Order.

1 Punch, 18-in. throat to punch 1 in. in ¾ iron.

A No. 1 Order.

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Tron Planer, planes to feet long, 52x48 in.
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Iron Pl., planes 8 ft. long, 38 in. x36 in. Sellers, 2 hds.
Engine Lathe, 20-ft. bed, 20-in. swing. Good.
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Co. make, and various other sizes.
Small Turrat Head Lathe.

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Betts 50-in. Horizontal Boring Mill.
63/4 in. Stotter, automatic feed.
30-ib. Bradley Cushioned Hammer,
50 ib.
Power Alligator Shears, small.
No. 5 Stiles & Parker Press, Ar.
Send for list Second-hand tools.

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Second-Hand MACHINERY in Good Order FOR SALE CHEAP.

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FOR SALE CHEAP.

Engine Lathes—62 in. x 17 ft.; 42 in. x 12 ft.; 32 in. x 15 ft.; 42 in. x 10 ft.; 22 in. x 8, 10 and 12 ft.; 20 in. x 8 and 14 ft.; 15 in. x 6 and 8 ft.; 1 each 24 in. x 20 in. and 24 ft.; 24 in. x 12 ft.; 26 in. x 12 ft.; 27 in. x 20 in. x 12 ft.; 2

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Steel Rails and Railway Equipment

of all descriptions, for Cash or on the Car Trust Plan,

COMPLETE OUTFITS FOR ALL CLASSES OF RAILROADS.

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FOR SALE Rails, Spikes, Fastenings, Frogs, Switches and Crossings. Locomotives, Dummies. Cars, Wheels and Axles. Complete outfits for logging Roads and Street Railways. New and Second-hand.

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Keep Your Belts From Slipping,

And Save Your Power by Using Friction Covering for Pulleys. Satisfaction Guaranteed. Easily Applied. No Rivets. Effective.

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NEW YORK EQUIPMENT CO., 15 Wall Street, New York. Have for Sale for Cash or Lease on Easy Terms on the CAR TRUST PLAN.

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PASSENGER AND FREIGHT CARS, ETC.

Of both Standard and Narrow Guage, to Railroad Companies, Logging Railroads, Mining Companies, Contractors, Etc.

We have on hand 3,000 tons of 35-lb. second-hand iron T rail, good to relay We carry in stock second-hand rail of any section desired. We are prepared to furnish Locomotives to railroad companies or contractors on monthly rentals for long or short terms. Send for Circulars. Correspondence solicited.

FOR SALE for Cash, or Credit on Car Trust.

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20 Second-Hand Narrow Gauge Passenger Coaches.
20 Second-Hand Standard Gauge Passenger Coaches.
30 New Standard Gauge Passenger Coaches, all modern improvements. Price \$1,700 each.
40 Second-Hand Single Horse Cars and 30 Double Open Horse Cars. New York delivery.
40 Second-hand Narrow Gauge Locomotives.
Different sizes.

Estimates Furnished for Electrical Equipment

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Apply to ALFRED W. LADD. 44 Broadway, New York.

Machinery. Cotton

1 3,000 Spindle Carpet Warp Plant.

1 200 Loom Plant for Osnaburgs, Sheet-

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30,000 lbs. per week. 1 Full System of Print Cloth Machinery, 160 LOOMS.

110 Potter 36 in. Cards, 18 in. Doffers, Quick-Running Comb, nicely clothed with ENGLISH Clothing. These Cards are a BARGAIN.

Also a large lot of Miscellaneous Ma chinery in first-class condition.

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TRADE NOTES.

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In another column an advertiser offers for sale one-half interest in a brass and bronze factory, situated in one of the progressive Southern towns. Particulars may be obtained by addressing Box 96, Birmingham, Ala.

QUITE a bargain in textile machinery is placed before our readers in the advertisement of F. Bartow, of 620 Atlantic avenue. Boston. The list includes about three complete outfits suitable for batting, etc., which are offered at a price to induce interested parties to buy.

AT Blacksburg, S. C., inducements are offered for the location of a plant to manufacture charcoal blooms. It is asserted that the blooms can be made for from \$18 to \$20 per ton, and ore may be secured in abundance perfectly free from phosphorus, sulphur and titanium. A site will be donated. Address J. Logan Black.

THE Aetna Machine Co., Warren, Ohio, general founders and machinists and manufacturers of the favorably-known Aetna engine, closed contract on the 12th instant with the 'Crown Fire Clay Co., of Canal Dover, Ohio, for a 300 horse-power Aetna engine, to be placed in the new fire-brick plant now in course of construction at that point.

GEORGE P. CLARK, Windsor Locks, Conn., manufacturer of machinery, has recently completed a large order of warp dyeing machinery for the Indian Orchard Mills, Indian Orchard, Mass., as well as a number of large cotton dyers with exhust fans for the same concern. Mr. Clark reports business extremely brisk, having had an exceedingly large amount of work for the past four months.

THE Graham Vise Wrench Co. has been started in Buffalo, N. Y., for the purpose of manufacturing a new pipe wrench which the manufacturers claim possesses unusual merit. It grips a pipe the same as a vise does, and in consequence it will never do it any injury. Another feature is that the grip being one of very great strength, the teeth do not cut the figure, which is the fault of some wrenches. All the parts being interchangeable, the tool when broken is not of necessity useless. This wrench enables a person to take the shortest nipple out of a boiler without injury. It ommends itself especially to those who have to work in close quarters, as it will grip to the 32d of an inch. Full descripis, cuts, prices, etc., can be had by addressing the manufacturers.

THE Blakeslee Manufacturing Co., Du Quoin, Ill, note the following among recent shipments: Steam pumps to Chicago, Ill., Cairo, Ill., Leavenworth, Kans., Tyler, Texas, Texarkana, Texas, Leadville, Col., Atlanta, Ga., Houston, Texas, Colvin Park, Ill., Princeton, Ind., St. Louie, Mo., Milino, Texas, Shreveport, La., Rutherford, Tenn., Vicksburg, Miss., Atchison, Kans., Charleston, Mo., Carterville, Ill., Galveston, Texas, Paducah, Ky., Assumption, Ill.; jet pumps to St. Louis, Mo., Richmond, Va., Leavenworth Kans., Atlanta, Ga., Decatur, Ill., Shreveport, La., Kansas City, Mo., Des Moines, Iowa, New York, N. Y., Montgomery, Ala., Vicks-burg, Miss., New Orleans, La., Memphis, Tenn., Mannington, W. Va., Joplin, Mo., Chattanooga, Tenn., Paducah. Ky.; saw mills to Carterville, Ill.

THE question as to what method of traction forms the best means of rapid transit is one which is prominent in the minds of a large number of persons who are studying the subject minutely. Of all the different methods in use, electricity seems to maintain the high position it has won. Of

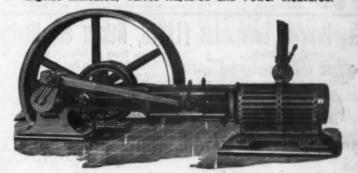
the several different systems of electrical traction, the overhead, underground and storage battery systems, certainly none attract more attention than the last named one. To railroad men especially there is a peculiar charm in having each car independent of the others or of anything except such means of propelling the vehicle as may be carried with it. Many attempts have been made upon this ideal system, in order to make it practicable, and it is only of late years that a practical system embodying the storage battery method has been secured. Of the several storage battery systems of street car traction none, perhaps, stand more prominent of late than that of the River & Rail Electric Light Co. After testing the inventions of Prof. Wm. Main for three years, it has now prepared to manufacture these patents for the market. The peculiarity of Prof. Main's motor is that no wires revolve. motor shaft carrying the bi brushes and cross arms revolves. The other portions are stationary. In the main storage battery the entire method of construction does not resemble that of any other invention. A catalogue fully describing the method by which the storage battery is made and operated will be sent upon application at the company's office, Aldrich Court, 45 Broadway, New York. When one battery has been exhausted for the time, a table is wheeled alongside the car upon which the battery is rolled out. This is then taken away and a newly charged battery is wheeled up to the car and rolled in. The whole process of changing the batteries is surprisingly simple and easy. The battery in the car which the company builds has sufficient space for 84 cells, 42 on either side. Sixty, however, are being used very satisfactorily. One great point claimed in favor of the River & Rail Electric system is that there is no loss or waste of electricity in starting. A car equipped with this system will average about three and a-half horse-power per car per mile. More attention has been paid to giving the street car as an illustration concerning the battery, because it will probably fill its most important mission in that field. However, in every case where power is used the practical storage battery will command a great deal of attention. The officers of the River & Rail Electric Light Co. are George L. Wright, president and general manager; Albon Man, vice-president; Wm. Main, electrical engineer; F. F. Randolph, secretary and treasurer, and E. J. Horton, assistant general manager. Street-car companies desiring technical details of this system may obtain them from the company.

E. J. WOOD, Consulting Engineer and Contractor,

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Superintendent of the Construction and Erection of Factories,
Steam Plants and all kinds of Machinery.
Engines Indicated, Valves Adjus ed and Power Measured.



COMPLETE STEAM PLANTS. BOILERS, ENGINES, Every Description,
SHAFTING, PULLEYS, HANGERS.

DRAWINGS AND SUPERINTENDENCE, ECONOMY GUARANTEED.

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Belt Driving. Special Machinery for Chemical and Fertilizing Works, Gas, Water and Crossote Works. A specialty of the "Warwick" Pole Road Locomotive, "Warwick" Tram Road Locomotive, and the "Warwick" Silent Steam Street Motor. Castings furnished. Repair work solicited. Consultations, Arbitrations and Valuations.

Engines indicated. Plans, Specifications and Estimates prepared. Correspondence invited.

WORKS-Newport News, Va. GENERAL OFFICE-1105 Main St., Richmond, Va. send all Repairs to our works.

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Ice-Making and Refrigerating Machinery

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Wood-Working Machinery OF EVERY DESCRIPTION.

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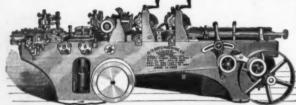


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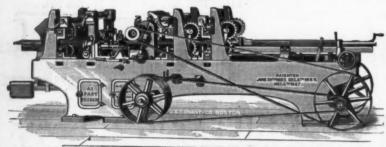


84 CLAY ST.

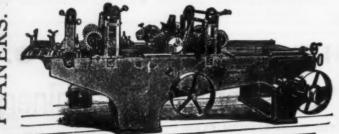
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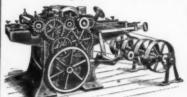
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of Planers and Matchers, Surfacers, Timber Planers, Self-Feed Saw Tables. Moulders, Pony Planers, Etc.



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Shingle, Heading & Stave MACHINERY

Shing'e and Heading SAWS.

Heading Sawing Machines,

HEADING TURNERS
HEADING JOINTERS,
Veneer Cutting Machines,

Stave Equalizers, Stave Cutters, Shingle Jointers Shingle Sawing Machines, Drag Saw Machines.

Drag Saw Machines.

HANDLE MAGKINERY.

Lathes for turning Handles or Brooms, Mops, Forks, Hoes, xee, Picks, Hammers, Cant Jooks and for Hall Bats, Peavy tooks, Pike Poles, Spokes, for If you want Machinery &c. taves, Heading, Shingles or Jones Cutting, send for our atalogue "A." If you want Handle Machinery, send for catalogue "B." Please say where you saw this advertisement.

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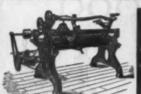
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PRICE, QUALITY and general SUPERIORITY taken into consideration, this is the Best Hand Saw

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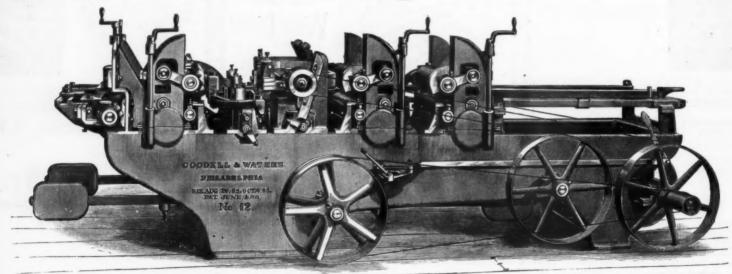


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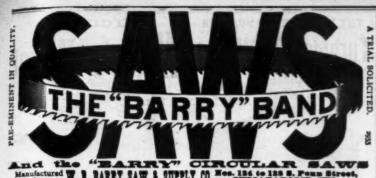
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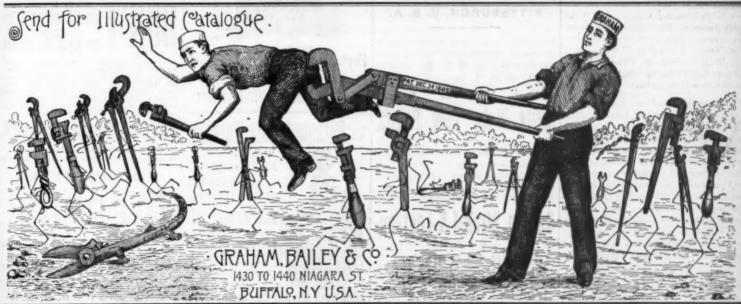
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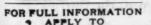


Powerful Portable Light TO 2,000 C. P.

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3,000 SOLD LAST SEASON.

FOR FULL INFORMATION KEEGAN & HALPIN, 44 & 46 Washington St., APPLY TO NEW YORK.



Pa.

TRADE NOTES.

THE New York Central Iron Works Co. of Geneva, N. Y., (recently incorporated), have just issued a very neat and concise hand-book on the subject of steam and hot water heating, that should be read with interest by householders, builders, architects and contractors who contemplate using any kind of method of heating buildings. It is sent promptly to any address free upon application.

A LARGE amount of money has been made in the South during the past few years by the purchase of standing hardwood timber. H. W. Sutherland offers for sale in this issue 50,000 white and chestnut oak trees at the headwaters of Russell's Fork, in Virginia and Kentucky, on the proposed line of the C. C. & C. R. R Full information can be had by addressing him at Bristol, Tenn.

GORDON, STROBEL & LAUREAU, Limited. of Philadelphia, have closed contract with the Leesport Iron Co., of Leesport, Pa., for of two 18x60 Gordon-Whitwell-Cowper fire-brick stoves. They have also contracted with Eckert & Bro., Reading, Pa., for a plant of two 17x60 stoves of the same type; the Junction Iron Co., Mingo Junction, O., for four 20x70 fire-brick stoves, and with the Lawrence Furnace Co., Lawrence Furnace, O, for two 14x60 stoves of the same kind. They have now under construction twenty-eight of these stoves.

A NEAT pamphlet is issued by Fletcher & Thomas, of Indianapolis, Ind. This firm deals in brickmakers' supplies, and make the celebrated Quaker brick ma-This pamphlet contains upwards chine. of thirty pages devoted to descriptions and illustrations of brick machinery. It can not fail to interest persons engaged in the brick business. Brickmakers should send for a copy. Three Southern agents represent Messrs. Fletcher & Thomas. They are Mr. J. H. Hensley, Memphis, Tenn.; Charles B. Oldfield, Norfolk, Va., and J. A. Blaffer, New Orleans, La.

THE Southeastern Plaster Co., of Savannah, Ga., place before the building public a handsome pamphlet entitled "Adamant," in which the advantages of this plaster are explained in a clear and convincing style. It contains also detailed information as to the purchase and application of adamant. and suggestions for specifications for adamant plastering. This plaster has been on the market for about five years, and has gained a wide reputation among architects and builders, as a perusal of a number of letters written to the manufacturers and published in this pamphlet will testify.

MR. GEORGE S. LEE, the well known mining engineer, chemical and metallurgical expert, has, after years of search, arrived at several important discoveries which promise to be very valuable. He has succeeded in bringing about a chemical combination of products which, it is claimed, form a lasting roofing. Upon the same principle, so it is said, paving can be produced of a very valuable character, as also can a preservation paint which, when once applied, cannot be removed except by friction. Mr. Lee's success lies greatly in the fact that he has combined the products of fire alone, all of the same chemical character, the result necessarily being perfect affinity. In other products in this line results are secured by the admixture of the products of fire and water, between which no affinity exists, water, between which no affinity exists, consequently no perfect combustion. Appreciating the merit of this composition, a corporation known as the Asphaltic Slag Paving & Roofing Co. has been organized and has erected works in Newark, N. J. The officers of this company are: Fitz John Porter, president; Wm. Bouldin, Jr., vice-president; Nelson S. Easton, treasurer; Robert S. Masterson, secretary, and George S. Lee, general manager. The capacity of the works are being increased, this move made necessary by the great demand for the company's product.



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Improved Patent HOT BLAST

Colliau Cupola

Address 287 Jefferson Ave DETROIT, MICH.

The COLLIAU PATENT Cupola Furnace Adapted to all Foundries. The Most Economical The Lowest in Price.

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Plant Ronstruction.

PITTSBURGH, U. S. A.

Blast Furnaces and Steel Works designed and erected complete in every detail ready for operation. Special attention given to the manufacture of

HEINE Water Tube Boilers.

Owning an extensive manufacturing plant I can guarantee promptness in execution, and satisfaction in any contracts undertaken by me.

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BLAST FURNACES. STEEL PLANTS. FIRE-BRICK STOVES. BLOWING ENGINES.

manufacturers of the Gordon-Whitwell-Cowper Fire-Brick Hot-Blast Stove, and within four years have

introduced them as follows:

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THE IMPROVED LANCASTER Descriptive

Lancaster Turbine Wheel Co. Lancaster, Pa.

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Manufacturers of the well known

DAVIS DOUBLE TURBINE



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PAT. SEPT. 3, 1889. High Percentage. Great Simplicity. CLOSE FITTING

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For Paper, Cotton and Grist Mi

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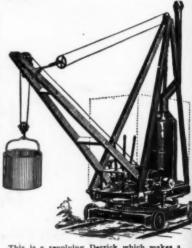
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The Grottoes Company

owns 25,000 acres of the best Iron and Timber lands, and 5,000 acres of unsurpassed City Site lands, or 30,000 acres all in one body, including the famous Weyer and Fountain Caves, the noted Grottoes Hotel, a large Electric-Light Plant, two good Water Powers, twenty-five Brick and Frame Houses, a thousand acres of native forests in parks, etc., etc. It now offers 15,000 Shares of its stock (par value \$100 at \$50 per share. The buyer of 5 shares of stock will be allotted a good city lot, not less than 25x120 feet in size, without charge; and the buyer of 25 shares of stock will be allotted 5 city lots and one villa lot without charge.

Go and see the property, where the City of Shendun is now being laid out, at The Grottoes, Shenandoah Valley Railroad, Angusta and Rockingham counties, Va., and you will agree that nothing yet offered compares with it in intrinsic value.

For prospectus, maps and information, address The Grottoes Company, Staunton, Va.,
or The Grottoes, Va.

Jed. Hotchkiss, President, Staunton, Va.

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BUENA VISTA, VA.

The Growing Manufacturing City of the Valley.

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FREE SITES FOR INDUSTRIAL ENTERPRISES.

THREE GREAT RAILWAY SYSTEMS

The Baltimore & Ohio, Chesapeake & Ohio and Shenandoah Valley connect it with the principal markets of the country.



ITS ADVANTACES ARE:

An unsurpassed climate; splendid water-power; a fine system of freestone water, which is conducted through the town in water mains, and its picturesque scenery.

UNLIMITED QUANTITIES OF SUPERIOR IRON ORES AT ITS DOORS.

With these advantages it commends itself at once to the consideration of those desiring to locate industrial enterprises where raw material is at hand and plants can be economically operated and a ready market in easy communication for its products.

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Four hundred resident and business houses; a fine system of water mains and sewers; electric light; two banks; two churches, two schools, one public, the other a female seminary, and a population of 2,050 souls.

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Iron Furnace—almost completed	
Pulp and Paper Mills—completed	
Saddle and Harness Factory-in operation	
Fire Brick Works-in course of construction	
Steam Tannery-in operation	
Planing Mills and Lumber Yard-in operation	20,000
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Red Brick Works-in operation	30,000
Wise Wagon Works-in operation	25,000
Wire Fence Factory—in operation	10,000
Woolen Mille-in course of construction	70,000
Electric Light Plant-in operation	10,000
First National Bank of Buena Vista-in operation	50,000
Buena Vista Building & Investment Company, Bankers-in operation	81,800
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Buena Vista Advocate and Job Printing Office-in operation	5,000
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Three Livery Stables-all in operation	10,000
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A Manufacturing and Railroad Center, A City of Increasing Values, A Place of Phenomenal Growth, A Section of Wonderful Resources, The Place to Invest and Locate, the Industrial Center of the South.

2,000 Lots to be Drawn, 190 Lots to be Sold.

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Two Days' Rare Recreation in the Picturesque Mountain City.

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CLIFTON FORGE, VA., is the terminus of three divisions of the great C. & O. R. R. System, where immense workshops, costing thousands of dollars and employing hundreds of hands are being constructed. Over \$7,000,000 capital invested in corporate enterprises, Rolling, Woolen and Planing Mills, Electric and Ice Plants, Water Works, Rapid Transit, &c. It is the center of the greatest iron region of the South, where immense Iron Purnaces are located, with a yearly output of several hundred thousand tons of pig iron. Timber is abundant, coal and coke are within easy access, and everything to make this the most important manufacturing point in the South. Write for prospectus. Address

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Will give to a reliable furniture factory, hub and wheel factory or wagon factory that will employ large number of skilled

25 ACRES OF GOOD LAND.

Lying right in the heart of the town of Jellico, Tenn., and worth \$10,000,

and will also give monetary inducement and sufficient land to good, reliable men who wish to establish manufactories of any kind. Fuel and steam cral for almost nothing, and will soon have finest of water power. Timbers of all kinds and in abundance and of magnificent proportions. End of the divisions of two great railroads, viz. East Tennessee, Virginia & Georgia and Louisiana & Nashville. Address for further particulars

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Offers to manufacturers—Free sites, belt railroad facilities, abundant water supply, cheap
coal, cheap iron, cheap labor, home markets.
Maguificent iron and timber resources, inexhaustible beds of coal, excellent transpotation
facilities both by rail and water.
Harriman, Tenn., is located at the junction of
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system with the Queen & Creacent system, at the
point where the Emory river breaks through
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As a distributing point and as a favorable gitua-

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As a distributing point and as a favorable situation for manufacturers, Harriman is not equalled by any new city in the South, and is excelled by no old city. Harriman is being built by the EAST TENNESSEE LAND COMPANY.
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No. 41.—35,656 acres, Jackson county, Ky., on Rockcastle river, 3½ miles above Livingstone, a station on L. & N. and Kentucky Central Rail-

roads..

No. 48,-46,000 acres, Powell county, Ky.

K. U. R. R, runs through this tract for 11 miles.

Nos. 45 and 46.-Aggregating 1,202 acres,
Boyd county, Ky., ½ mile from C. & O., N. N. &

M. V. and O. & B. S. Railroads and Ohio river.

No. 47 -13,561 acres, Jackson and Lecounties, Ky., 10 miles from Louisville Southern

No 50.-63,070 acres, Morgan county, Ky.

Three recent surveys of different railroads have been made through this land.

1,593 Acres Caunel Coal Rights in Johnson county, Ky. Lands border on Big Sandy river. O. & B. S. R. R. runs within 200 yards of some of it, and "Three Cs R. R." will pass

through most of it.

No. 60.—5,000 acres, Logan county, W. Va., on Tug Fork Big Sandy river. N. & W. R. R. now being constructed through this tract.

No. 61.-6,000 acres, Clay county, W. Va

No. 62.-5.434 acres, Braxton county, W. Va. Nos. 78 and 79.—Aggregating 19,750 acres, of elegate county, Va., on opposite side Craig's Botetourt county, Va., on opposite side Craig's creek, and bordering on same, from New Castle, and the Craig's Creek Min ral R. R., now being constructed.

No. 80,-10,250 acres, Botelourt county, Va., ing tract 78

No. 100, 45,144 acres, Fentress and Scott ounties, Tenn., about 5 miles from Cincinnati counties, Tenn. Southern R. R.

No. 101.—30,000 acres, Cumberland county, Tenn., between towns of Rockwood and Crossville, Crab Orchard mountain; w'thin 5 to 10 miles

No 195,—100,000 acres PINE land, in Holmes, Washington and Calhoun counties, Florida. Two railroad surveys and Coctawhatchee river runs through tract.

Also other properties, including Coal Mines in operation, Mineral Paint Lands, Flour Mills, etc.

Write for plats, topographical charts, civil and mining experts report and full printed descriptions of property.

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The town of New Castle (or Craig City) is the county seat of Craig county, Va., and lies midway between the Cheapeake & Ohio Railroad at Eagle Rock, and the Norfolk & Western at Salem, Va. A branch of the Cheapeake & Ohio Railroad is now being built to New Castle, which will be completed about Sept 1, 1890. This road will open up the richest mineral region of Virginia, and cause great development of resources and consequent of values.

the richest mineral region of Virginia, and cause great development of resources and consequent enhancement of values.

The property belonging to this series will be divided into about 600 business and residence lots, and will be sold for the benefit of the stock-holders. Applicants for stock in series C will please remit \$1 per share to the West Salem Land Company at Salem, Va.

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The rice and sugar plantations and great massive sugar houses and refineries south of Baton Rouge are especially interesting, and never fail to please the observant passenger. Between Memphis and Vicksburg the line passes through some of the finest cotton plantations in the Yazoo-Mississippi Delta, the most fertile agricultural section of country on earth. The equipment and physical condition of the line are first-class in every particular, permitting a high rate of speed and insuring the comfort and safety of passengers.

a high rate of speed and insuring the comfort and asafety of passengers.

TOURISTS' TICKETS at reduced round-trip rates are on sale at ticket offices to different points in Southern Texas, California and Mexico. Magnificent Pullman Buffet Sleeping Care run between Cincinnati and New Orteans via Louis-ville and Memphis without change.

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SPORT AND BUSINESS.

FIRST WEEK IN SEPTEMBER.

3d, 4th, 5th and 6th, 1890.

Almost any one can afford to visit Asheville for the sport promised upon the occasion by our Rifle Team and Shot Gun Clubs in their

INTERNATIONAL SHOOTING MATCH,

programed for the days commencing Wednesday continuing balance of the week, and when there is offered that unusual combination of

FUN AND MONEY MAKING.

expected that everybody will come. Shooting Tournament, by mutual agreement is to furnish the fun, and we, the undersigned, are on that occasion to offer to the thousands of visitors who are expected to attend the opportunity of purchasing some of the

FINEST RESIDENCE LOTS

ever offered in this or any other city, being just out of the busy and bustling part of town, the very place for a home or an investment for some one who will want a home. The safe rule to judge the future is by the past, then take a retrospect of "Asheville's Dirt Investors," every man of them that went in, and went in deep, is rich! You can do the same. She has greater things in the future than she has realized in the past. A thousand than she has realized in the past. A thousand per cent, more money to be spe nt in her corporate limits and near environments in the next three years than in the past three. This is no guess work. Statistics prove the assertion. Then is it not the time to put money in gilt-edged property? That this is the kind we prop ose offering in the

ONE HUNDRED AND TWO ACRES

of unbroken forest lying along Merrimon Avenue the boulevard of the city, no one will question The one mile post stands near the center of this property, about one-third of it being within the citp limits, and the remainder in the charming arban villa of Ramoth.

There has never been anything comparable to it offered in Asheville. Situated just where it should be and just as it should be. It is now being divided and sub-divided into lots and plats to suit the configuration of the ground-running in size from ½ acre to plats of 3 to 5 acres. And we promise to show some of the most picturesque and beautiful residence eminences in America. There will be a labyrinth of streets and avenues all opening or leading into Merrimon Avenue. The widest, best and most popular drive leading from the city. No contact with street or trains, and the only avenue extending or No contact with street or railw half miles from Court Square. Don't forget!

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It is the center of the finest Hard wood on the imber and Magnetic Iron to be found on the

Has an altitude of 2,339 feet above sea-level, Has an altitude of a,339 feet above sea-level, and surrounded by as imposing and picturesque s.enery as the eye of man ever looked upon; is in close proximity to the celebrated "Black Mountain Range,"; the highest east of the "Rockies,' Mt. Mitchell's peak measuring 6,717 feet, with is neighbors varying from 6,000 to 6,500 feet. Has a mean temperature of about 50° in winter and 70° in summer, never a sultry day and nights invariably cool. riably cool.

Has four lines of railroads leading out and four others in prospective; has Electric and Gas Lights, Sewerage and Water Works, and one of the finest systems of Electric Street Railways in the United States; has a population of from ten to twelve thousand, having increased at an aver-age of over one thousand a year for seven years. Is situated, well—sorry for the man who does not ow. If you ask where any other town or city we will take pleasure in telling you how far it from Asheville, and some of them we fear are too far away to ever amount to much

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We will get special railroad rates from every
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The most desirable locations in the South for manufacturing wagons, stoves, agricultural implements, furniture, or for foundries, machine shops, rolling mills, muck bar mills, nail works, glass works, cotton or woolen mills, and tanneries, are to be found in Virginia along the line of the Norfolk & Western Railroad from Norfolk to Bristol, and upon its branch lines. Hard wood of every variety; pig iron from the furnaces at Lynchburg (2), Roanoke (2 in operation and I now under construction), Pulaski (1), Ivanhoe (1), Radford (1, to be built in 1890), Salem, Graham Max Meadows and Bristol (1 at each point now under construction), bar iron from the rolling mills at Roanoke, Lynchburg and Richlands (I to be built in 1890); coke and semi-bituminous coal from the Pocahontas Flat Top field; superior gas coals from the mines on the Clinch Valley Extension; glass sand from Tazewell county: cotton from the markets of the Southern States. and wool from all the Western and Southwestern States and Territories at advantageous freight rates. Favorable freight rates made upon raw materials to all factories established upon its line, as well as to points in the United States and Territories upon the manufactured articles.

Those seeking new fields for manufacturing establishments should not fail to investigate the wonderful development of iron, coal and coke industries that has been made within the past five years along the line of the Norfolk & Western Railroad. and the advantages offered by the State of Virginia in the supply of cheap raw materials; by the Norfolk & Western Railroad in the matter of freight facilities and rates upon raw materials and for reaching home, far distant and foreign markets, and by the cities and towns along its line in the way of advantageous sites at moderate cost. Many of the cities and towns exempt manufacturing establishments from taxation for a series of years.

For further information as to freight rates and sources of supply of raw materials, apply to A. Pope, General Freight Agent, Roanoke, Va., or to

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For Wool Scouring Machines, Warp, Yarn and Skein Dyeing Machines and Bleachery Use, etc. Also Complete Power Wringers, all styles. Only Rubber Roll that will withstand heavy pressure.

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THEY ARE BEST MACHINES IN EXISTENCE.

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Makes the BEST WARP in use.

SEND FOR CUTS AND PRICES.

Single Linkers Altered to Double Linkers.

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CAPACITY:

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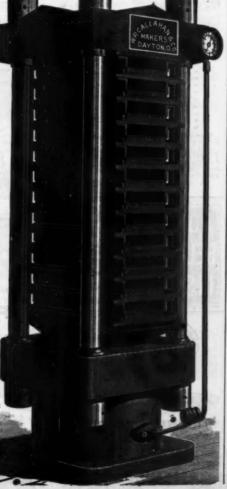
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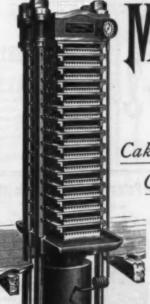
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Send for Cuts and Prices.

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GASOLINE PAINT BURNERS, GASOLINE and

OIL TORCHES and GASOLINE PLUMB-ERS' and TINNERS' FURNACES.

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Our Gasoline and Oil Terches produce the best and cheapest light for in and out-doors. They are particularly desirable for camps, camp meetings, fairs, docks, fishing grounds, fruit stands, mills, factories, foundries, etc. For plumbers' and tinners' in and out-door use our Gasoline Furnaces are the best.

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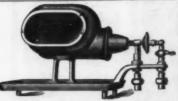
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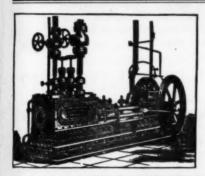
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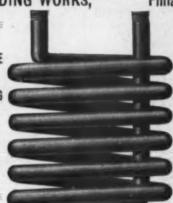
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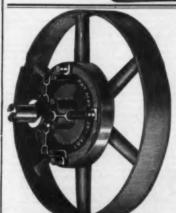
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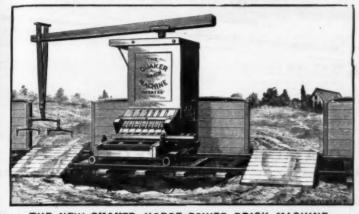
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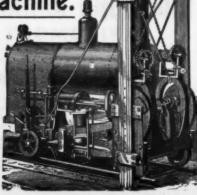
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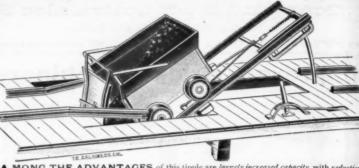


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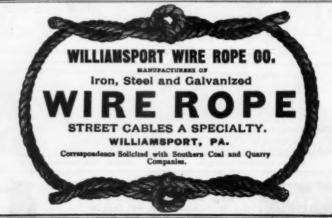
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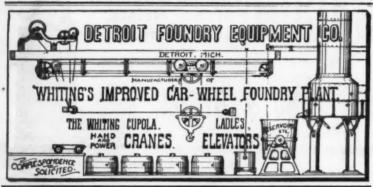
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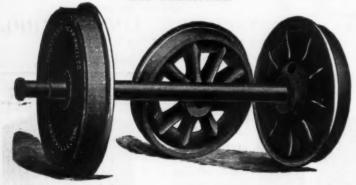


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Steam Hammers. Foundry Cupolas, Derricks, Crabs,

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Locomotives, Cars, Rails, FASTENINGS, SPIKES, ETC.

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50 to 80 lbs. per yard 16 , 45

Bolts & Nuts, and Crossings.

NEW YORK N.Y. 16 lbs. Full Size.

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Cone, Button, Flat, Rose, Counter-Sunk, Button Counter-Sunk and Steeple Heads.

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WEIGHT 40 TONS. Capacity 2,000 cub. yds. per day

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From 1-4 to 15,000 lbs. Weight.

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UPRIGHT DRILLS, Has no Pumps.

20 to 32 inch swing, with both worm and lever feed, self-feed and back-geared 90 to 33 inch awing, who both worm and lever feed, self-feed and back-geared ply it with water.

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Lathe, level on a level

always ready for the foot bed.

These machines are made a specialty in our factory.

They have advantages not found in other machines in this line.

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THOMAS E. CARBY & BROS., of Light Street, Ba SAUNDERS' SONS,



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Threading Machine.
BEWARE OF IMIATIONS. None genuine without our Trade Mark and name. Also

Patent Wheel Pipe Cutter STEAM AND GAS FITTERS'

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A fitting which requires no packing to make a manent joint. permanent joint.

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Malleable Iron and Polished Brass Fittings of all kinds, for building Pipe Railings, also Awning Frame Fittings.

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"Eclipse" Pipe-Cutting Machines, built in six different sizes for use by hand or po Improved Steam Glue Heaters.

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PATAPSCO SUPERLATIVE PATENT,

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ROLLER and Detachable Chain Belting,



Detachable in Every Link, FOR IMPROV

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Also manufacturers of the Jeffrey Electric Coal Mining Machines, Coal Drills and Haulage System. Send for our illustrated (1890) cata-

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Complete Outfits a Specialty.

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If either, or both, send for
Controlled I salest and best method
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System of Butter Making is a success.
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Steam Engines and Boilers,

Saw Mills, Machinists' Tools, Wood-Working Machines, Mining, Brick, Ice, Grist Mill, Dairy, Canning and Electric-Lighting Machinery a Specialty; also Double Cylinder Traction Engines. Complete outfits supplied at lowest prices. Correspondence is solicited.

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The Motor of the 19th Century.

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Can be used ANY WORK, and by ANY ONE.
No Boiler! No Fire! No Steam! No Ashes! No Gauges! No Engineer! No Dauger! No Smoke! A perfectly safe motor for all places and purposes. Cost of operation about one cent an hour to each indicated horse-power. For circulars, etc., address CHARTER, GAS

INDUSTRY FILE WORKS, A. & H. GOUGH A. & H. GOUGH, Proprietors, MID Manufacturers of Rasps Equal to the best English File. OLD FILES RECUT. All kinds of Job Grinding. OFFICE AND WORKS.

48 Columbus St., Cleveland, O.

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PATENTED MAY 29, 1888

DOUBLE STRENGTH

WOOD SPLIT PULLEY.

Chattanooga Wood Split Pulley Co. Chatt., Tenr.

Rarnard's Separator

For Separating and Removing Entrained Water from Live Steam;

Condense Water, Oil, Dirt, Etc., from Exhaust Str



GEO. A. BARNARD,

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Reducing Valves



Ours are the Standard used by the American and Southern Cotton Oil Companies and over 30 Rail-SEND FOR PRICES.

Damper Regulators, Pump Governors, Etc.

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The WELLINGTON BELT HOLDER.



IMPROVED. Just the thing shift large elts driving to shift large
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Dynamos, Hiowers, Gins, Saws,
&c. Belt stops
and slackens
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Foot and Power Lathes, D Foot and Power Lathes, D Presses, Scroll Sew Attachmen Chucks, Mandrels, Twist Dri Dogs, Calipers, etc. Lathes on trial. Lather

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Address H. L. SHEPARD, Agent,
134 E. 2d Street, Cincinnati, Ohio.

THE PROGRESS MADE IN THE manufacture of Roofing Material has become so extensive that one establishment in Philadelphia, Messrs. Merchant & Co., has branches in London, New York, Chicago and Kansas City. This firm is well known the world over and one of the novel features connected with their mode of business as regards their tin department, is the fact that every single sheet goes through a printing prosingle sheet goes through a printing pro-cess of being specially stamped. Every box is guaranteed, and every sheet is stamped. It is needless to add that through such careful precautions the con-sumer is enabled to know that he is se-

sumer is enabled to know that he is se-curing the best and proper quality of tin. Any one in the building line wishing to become correctly informed on the sub-ject of tin roofing should address Mer-chant & Co., Philadelphia, and learn what f financial benefit to them.

- National Builder, August, 1890.

E. & B. HOLMES,

BUFFALO, NEW YORK,



Chambers Patent Barrel Heater.

Capacity 300 tight or 500 slack barrels per day, The best Heater made.

E. & B. HOLMES, Sole Agents.

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and Ornamental Wire Works. DUFUR & CO. 113 & 115 N. Howard St., Baltimore.



Artistic Work a Specialty.

Read What a Michigan Miller Says of the Case Company.

STURGIS ROLLER MILLS, BAUER & BUHRER, Proprietors.

STURGIS, MICH., July 12, 1890.

The Case Manufacturing Co., Columbus, Ohio:

GENTS-We started mill July 7th. The 12 pair 9x18 rolls you furnished us worked perfectly. They are so easy to adjust, so simple to handle, feed so regularly, grind so nicely and even, and work so smoothly on the whole, that we have no hesitancy in stating that we cannot see how they can have a superior, if equal. Aside from their perfect work, they are models of beauty and finish, and a decided ornament to any mill. We enclose clippings from papers. We are, with best wishes,

Very truly yours,

BAUER & BUHRER.

For full particulars regarding the best FLOUR OR CORN MILL MACHINERY, address



THE CASE MANUFACTURING CO., Columbus, Ohio.

TRADE NOTES.

WITH a constantly increasing demand and the receipt of numerous orders for their well and favorably known "Beck" standard automatic engines, the Taylor Manufacturing Co., of Chambersburg, Pa., report the heaviest summer's business they have ever had in the South in the supply of their regular line of plain, stationary, horizontal and vertical engines and boilers, and also in all sections of the East and West. Their line of automatic engines is a complete one, and the favor which it has attained is merited by its performance in both electrical and general power service. Beck engines and steam plants have been sold the following Southern parties within the last few weeks: One engine to the Newberry Oil Mill Co., Newberry, S. C.; ne engine with complete steam plant to Bedford City Land Co., Bedford City, Va.; engine for the Greenwood Oil Co., Green-S. C.; engine to Old Dominion Paper Bag Co., Roanoke, Va.; engine with the old company.

another to Carnegie Bros., of Pittsburgh, and another to Quaker Electric Co., of Philadelphia, for Lancaster, Pa.

THE Silver & Deming Manufacturing Co., of Salem, Ohio, has made a change in the manner of conducting its business. This company will hereafter be known as the Deming Co., and will retain the original charter and occupy the present plant, but the trade has increased to such an extent as to render expedient a division of the business, consequently the Silver Manufacturing Co. has been organized and adequate works erected. The latter company will manufacture the following goods formerly made by the old company, viz: ensilage and fodder cutters, blacksmiths' drills, carriage makers' and but hers' tools and saw gummers. The Deming Co, now having increased facilities, will devote its plant to the exclusive use of the making of pumps, hydraulic machinery, well supplies, etc. The Deming Co. will settle all accounts of Boult's carver and moulder. Their orders for dovetailers, shaping machines and steam pumps give them very little time for vachting and fishing.

THE manufacturers of the Furman boiler for steam and hot water heating have received the following telegram:

BOSTON, MASS., August 21, 1890. Herendeen Mfg. Co., Geneva, N. Y.

Our Furman hot water boilers have just been awarded first prize at Florists' Convention, scooping all competitors.

WM. L. HERENDEEN, Treas.

Evans Friction Cone Co.

The line shaft shown in the cut is driven from a compound Ide engine by means of the belt which is shown. The two machines at the extreme left of the cut are each 60 horse-power Thomson-Houston railway generators, both running on the same circuit. The power on these two machines varies from practically nothing to 140 horse-power many times an hour

are running street railways, and the arc machines street circuits. The station is at (Farmers) Attleboro, Mass., and is owned by the North Attleboro Steam & Electric They have also a station in North Attleboro, Mass. They will move some of their dynamos from North Attleboro to this new station this summer.

The Niagara Roofing Folder.

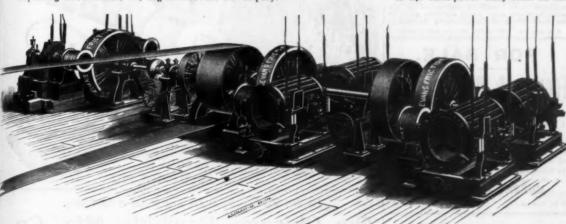
Attention is called to this machine, the Niagara quadruple roofing folder. By its use a boy or unskilled laborer can fold the four sides of roofing plate at one time, whereby about 40 boxes of tinplate per day can be folded as easily as 10 boxes are now

The machine is usually supplied for 20x 28-inch tin, but a table can be supplied at an extra figure to fold 14x20, to work on the same machine. The sheets of tin require no squaring for use on this machine,



THE NIAGARA QUADRUPLE ROOFING FOLDER

and make a more perfect roof than by any other method known. To explain this it may be necessary to state that the sheets of tin as they come from the maker are not at all times as true to the square as could be wished. This difficulty is overcome by the construction of the machine, admitting of a perfectly true fold being made, the inequality of size in the sheet being disposed of in the lock. Another advantage of this machine is that a tinner can lay one-third more sheets per day when folded by this machine than of those folded by any other process, as each sheet is folded square exactly without buckling and without straining the edges. Manufactured by the Niagara Stamping & Tool Co., Buffalo, N. V.



THE EVANS SYSTEM OF POWER TRANSMISSION

complete steam plant to Albertson, Murphy & Co., Waycross, Ga.; engine for Abbeville Cotton-Seed Oil Mill & Fertilizing Co., Abbeville, S. C.; engine to the Bridgewater Carriage Co., Roanoke, Va.; engine with complete steam plant to W. M. Blount, Bainbridge, Ga.; engine with boilers to Albany Fertilizer & Farm Implement Co., Albany, Ga.; two engines for Tampa Bay Hotel Co., Tampa, Fla. Their vertical automatic engine, arranged on special combination base with dynamo, is gaining much favor for isolated electric lighting work, and is worthy the consideration of all mills, factories and buildings contemplating putting in isolated electri al equipments for lighting purposes. They have sold two of these engines to the United Edison Manufacturing Co., of Toronto, Canada, and another for the steamer Naugatuck, of New York. They also build the vertical automatic engine on a base separate from dynamo and also adapted for general power service, having sold one of them recently to Edison Co., for West Bay City, Mich.; has recently put in one of their celebrated

DS

THE Bolton (Eng) Chronicle publishes | a lengthy description of the 100th anniversary celebration of the founding of the great machine making establishment of Dobson & Barlow. The long experience of this firm warrants the belief that they are fully equal to the requirements of the times. Their machinery, while only introduced in this country two and one-half years ago, has, by its merits and advantages and the enterprise and push of the American agents, Messrs Stoddard, Lovering & Co., of Boston, enjoyed a wide and increasing sale among New England mills, and is meeting the approval of all users. The carding engines, combers, etc., made by these works are largely used in English mills, and their simplex revolving top-flat carding engine has achieved a splendid success among cards of this type.

THE Battle Creek (Mich.) Machinery Co. report a very brisk and satisfactory business. The Northern Pacific Railroad Co.

Each of the four machines shown at the right of the cut are Thomson-Houston "L, D." machines, each with a capacity of 50 1200-candle-power arc lamps, and each machine is fully loaded. The speed of the line shaft is 300 revolutions. The driving pulleys on the line shaft are 56 inches in diameter. The speed of the railway generators is 1,150 revolutions, and of the arc dynamos is 820 revolutions.

The electric company is now putting in another large engine and will belt direct to a continuation of this line of shafting and connect to the present shaft with a clutch coupling. On this continuation there will be more dynamos placed and all will be driven by the Evans system. The dynamos, it will be noticed, are arranged so that one pulley drives two machines and in such a manner that each dynamo can be stopped and started without slowing the engine independently of the other machines. By putting two dynamos on one pulley the pressure on the shaft bearing is relieved, and the plant takes up the least

The Markets.

OFFICE MANUFACTURERS' RECORD, BALTIMORE, August 27, 1890.

Nothing has as yet occurred in the iron trade to justify any departure among buyers from the policy they have been pursuing for several months past. Occasionally a large transaction is heard of, but the great bulk of business is made up of small lots for immediate use. Crude iron is particularly quiet. Quotations at some Southern furnaces show a slight decline, No. 1 Southern iron has been selling in New York and Philadelphia at \$17 to \$17,25; No. 2, at \$16 to \$16.25, and No. 3 at \$15 to \$15.25. These figures have not brought out as much business as the agents of the Southern iron companies had expected, but they think that after September 1st, when business men generally have returned to their offices, there will be an expansion of trade. The distribution of Southern iron in Western markets is satisfactory both to makers and brokers; the chief run. of course, is for foundry irons. A 100-ton furnace at Birmingham, built by the Vanderbilt Iron & Steel Co., went into blast last Saturday.

Throughout the Ohio Valley an immense amount of new work is reported, and this indicates a very active demand for crude iron throughout September. No attempt has been made to mark up prices, and it is probable that current quotations will be continued through that month. At Cincinnati stocks of charcoal iron have been slightly increased. At Cleveland transactions in iron are frequent, and prices continue very firm. Pig iron is quiet.

At Chicago a large amount of fall busi ness has been done in both crude and finished iron. At New York very littlenew business is reported in iron or steel, but purchasers are asking for figures, and it is expected that they will be heard from early in September. The muck bar mills throughout the country are pretty well sold A great many inquiries have just been nade for steel billets, but only a few transactions are quoted. Quite a number of buyers of Bessemer pig are in the market, and a large amount of business will be done next month. Skelp iron is extremely active at points, and mills are crowded with work. Merchant iron is in good demand, and prices range from 1.60 to 1.90. Steel rails are quoted at from \$30 to \$32, according to weight. Only small lots are The Board of Control reports selling. sales for the first seven months of 1890 at 1,273,444 tons, and deliveries for the same time 826,740 tons. Foreign manufacturers of billets expect to make some very heavy sales on this side during the fall. Prices for all kinds of furnace and mill products at their lowest probable limit, but this fact does not influence buyers to make purchases for the rest of the The producing capacity is so large that consumers feel perfectly safe in buying only weekly or monthly supplies. The car builders are extremely busy, and contracts in some instances will run over into next year. The locomotive builders are also well supplied with orders, and the manufacturers of railway equipments and supplies generally are working full time. Intimations come from high authorities to the effect that railway building next year will be undertaken on a much larger scale. All the railroad companies are doing well and enjoying a very heavy traffic. In a and enjoying a very heavy traffic. In a general way, freight rates may be said to be more satisfactory than they were 12

The coal trade in all parts of the country is quite active, and the erection of coke ovens is going on wherever coking coal is to be found.

HARDWARE.

The demand for hardware continues good, and orders are coming in from the South and Southwest freely. Prices are

unchanged, and factories are investigating orders closely, and do not hesitate to refuse those that do not show a profit. Reports continue encouraging, and indicate great prosperity in the cotton and tobacco sections. The demand for staple goods is larger than for many years, and factories are behind in filling orders. The Nicholson File Co, in order to supply their largely increasing trade, are extending their works, and will increase their capacity fully one-third.

AMERICAN-

PIG IRON Storage Warrant Co.

(Bank of America Building.)

NEW YORK 44 Wall Street.

Correspondence of Furnaces Invited.

NASHVILLE RAPID TANNING

BELT MANUFACTURING CO

facturers of Oak Tanned and Rawhide Belting, Lace Leather, Picker Leather, Lariats and other Rawhide Leather NASHVILLIS, TENN.

Silica Graphite Paint.

DURABLE AND BRAUTIFUS.
Unaffected by heat or cold, dampness, salt air, rever acids. For smoke stacks, boiler fronts of the cold, or metal work, this Paint is far superior sything made. Fer details send for circulars. Joseph Dixon Crucible Co., Jersey City, N. J.

PICKANDS, MATHER & CO. Pig Iron, Iron Ore and Coal

Perry-Payne Building, CLEVELAND, OHIO.

EDWARD ALLEN, Practical Lead Burner

BALTIMORE, MD.

Sulphuric Acid Chambers constructed on the latest improved plan. Strict attention given to the Lead Work of Concentrating Apparatus. P. S. BOX 814. ESTIMATES FOR THE ABOVE GIVEN.

FOR SALE.

Foundry & Machine Shop

1 % acres of ground, centrally located in city. Ready established trade. Three city and running within 50 yards. To be city. Ready established trade. Three railroads running within 50 yards. To be sold for a division, on account of the death of both partners. Full particulars will be furnished to enquiring parties by writ-

MURRAY & STEVENSON,

ANNISTON, ALA

FRUIT EVAPORATORS.

Particulars Free. Six Sizes.

Adapted for Factory Plants, Farmers, Grocers, Fruit Dealers, Storekeepers, &c.

EVERY DETAIL FURNISHED. STATE CAPACITY WANTED.

The Prices Range from \$25, \$50, \$75, \$175, \$350 to \$1,000 and upwards.

Order early. If any delays occur it will be in our busy season. There is money in the use of an evaporator. Address

AMERICAN MFG. CO.

Waynesboro, Pa., Box E.

Philadelphia × Warehouse × Company,

No. 235 Dock Street, Philadelphia.

CAPITAL, \$1,000,000, FULL PAID.

This Company makes advances upon Pig Iron stored at Furnaces (storage charge being nominal) or in Public Warehouses, upon reasonable terms. Particulars upon Application,

Sec. and Treas.

H. PILE, BEAUVEAU BORIE, Superintendent. R. H. PILE,

HARRY F. WEST,



The Gandy Belting Co.

SOUTHERN AGENTS: Smith & Courtney, Richmond, Va. Atlanta Rubber Co., Atlanta, Ga.

Baker, Sloo & Co., New Griegas, La.



The Only Manufacturers of Raw Hide Belting in the Country.

The Chicago Rawhide Mfg. Co.

RAWHIDE BELTING, LACE LEATHER,

ROPE, LARIATS, FLY-NETS,

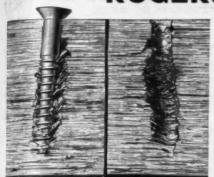
Picker Leather, Stock and Farm Whips, Washers, Hame Straps, Hame Strings, Halters and other Rawhide Goods of all kinds, by Krueger's Patent.

This Belting and Lace Leather is not affected by steam or dampness; has more grip than any other; never becomes hard; is stronger, more durable and the most economical Belting made. Especially adapted for the Southern trade on account of its resistance to moisture. The Rawhide Rope for Round Belting Transmission is SUPERIOR TO ALL OTHERS.

73 and 75 OHIO STREET, CHICAGO, ILL.



AMERICAN SCREW CO., PROVIDENCE, R. I. "ROGERS' DRIVE SCREWS." Patented May 10, 1887; July 19, 1887; July 19, 1888. Other patents pending.



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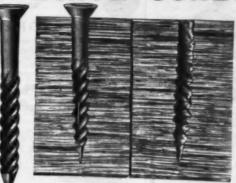
Strings,

y other; specially Rope for

Ju.

-

A common cut thread screw as ordinarily inserted i. e., driven two-thirds of its length with a hammer and the balance with a screw driver. Fibres of the wood are necessarily broken, and the holding power of the screw much impaired.



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The foregoing illustrations speak for themselves, but we call attention to a few advantages of the "ROGERS' DRIVE SCREWA."

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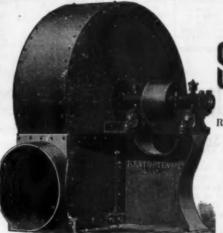
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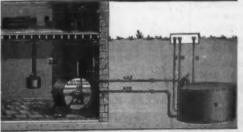


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1889

Eastern Lumber Markets.

[Special Cor. Manusactusess' Record]

NEW YORK, August 26, 1800. The trouble with the brickmakers has caused a good deal of apprehension in this city during the past few days. It has been brewing a good while, and has now reached Building operations have been more or less interfered with already; a great deal of building is now under way, and should the strike last long, great losses will occur.

There is a steady, even demand for all kinds of lumber, but particularly Southern, the hardwoods being in great request, and demand extending over a wider range than usual. Architects continue to suggest the use of the newer kinds, and in this way a demand has been developed within the past three or four months for a variety of miscellaneous woods. The wholesalers have recently taken advantage of offers made by Southern manufacturers of hardwoods, and we learn have bought out about all the stock the parties have on hand, the inducement being, of course, low prices. It is sometimes an advantage for a manufac-turer to clean out all his old stock, and our wholesalers, who have a wide range of trade, feel perfectly safe in making purchases of this kind. In this way we will get a good deal of poplar, ash, plain and quartered oak, besides maple, cherry, cottonwood and birch. Birch is becoming quite an important wood in this market, and large sales are being made all the way from \$26 to \$35, according to quality. A good deal of cottonwood is selling at \$20 to \$22. The dealers in hickory, elm and sycamore are doing a good deal of business. Clear chestnut is in request at about \$34. More or less redwood is finding its way into this market. There is always a demand for good cherry, and stocks just now are rather light. Maple for flooring purposes is moving quickly and prices are strong. Quartered oak leads the market, as usual. We expect to have a very large supply of plain oak during September; in fact, the wholesale dealers in hardwoods regard this as a very favorable time for making extensive purchases, as manufacturers and shippers in the South are entertaining more liberal views as to prices

In regard to yellow pine it is impossible to add anything that is decidedly new. Supplies continue at the average, and some very large contracts are shortly to be given out. One difficulty in the way of placing heavy contracts in the South is that some Southern manufacturers are oversold and cannot promise deliveries at certain times. There is no cutting of prices. Salesmen have been instructed to stand out for strong prices, and they are doing so.

The export trade is once more picking up, and we expect that within a few weeks everything will be moving along as usual

Prices for North Carolina pine are being well maintained and the trade is extending. good deal of Eastern spruce is coming this way. There is a moderate demand for white pine, but nothing unusual can be re-

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The Development of the Caliper.

Without doubt the first tool that suggested itself to the mind of the early worker in metals for the measurement of diameters or thicknesses was a gauge so thing like that shown in Fig. 1, which is simply a notched plate of iron, the width of the notch being the measurement of the diameter or thickness required, and by

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FIG. I.

repeated applications of this gauge to the work as it neared completion, accurate results were secured; but this tool was what would now be called a special tool or gauge designed for measuring fixed diame-It lacked the adjustable feature which was necessary to adapt it to work of different sizes. Of course the tool could have been heated and altered, but this



would have occasioned considerable labor. as well as the loss of the original gauge. It is therefore probable that for an adjustable gauge or caliper something like that shown in Fig. 2 was employed. This tool consisted of a curved bar of metal with the ends approaching each other, and the adjustments were effected by bending the

An obvious and early improvement upon



FIG. 3.

this caliper is shown in Fig. 3. The difficulty of bending a bar whenever an adjustment was required suggested the use of a frictional joint at the center of the bar, which would permit of swinging the arm of the caliper to adapt it to the measurement of different diameters. From this crude mechanical device have been devel-



FIG. 4.

calipers.

Fig. 4. In this caliper the jaws are connected together by a fine joint, and a is devoted, giving the capital, surplus, offi-

C-shaped spring is applied, which tends to c-snaped spring is applied, which tends to separate the free ends of the jaws. The adjustment is instantly effected by a simple and durable slip-nut which, together with the joint and spring, forms an arrangement appreciated by every mechanic. Manufactured by J. Stevens Arms & Tool Co., Chicopee Falls, Mass.

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FIG I .- UNIVERSAL PORTABLE FORGE.

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FIG. 2.—UNIVERSAL PORTABLE FORGE.

companying illustrations, are especially adapted to the use of boiler makers, bridge builders, miners, farmers, ship builders and railroad contractors, Further infor-mation may be secured by addressing the Empire Portable Forge Co., Lansingburgh,

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The modern invention in this line is State is taken up in alphabetical order,
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cers and correspondents. The book also contains a record of brokers and investment companies, a selected list of bank attorneys who have been recommended to the publishers as thoroughly responsible, and a list of towns having no banks, giv-ing the points where to send collections. In the last part of the book is presented a synopsis of the laws relating to banks and bankers, which makes it invaluable to bankers and merchants.

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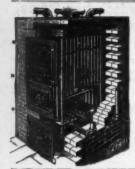
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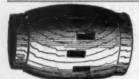
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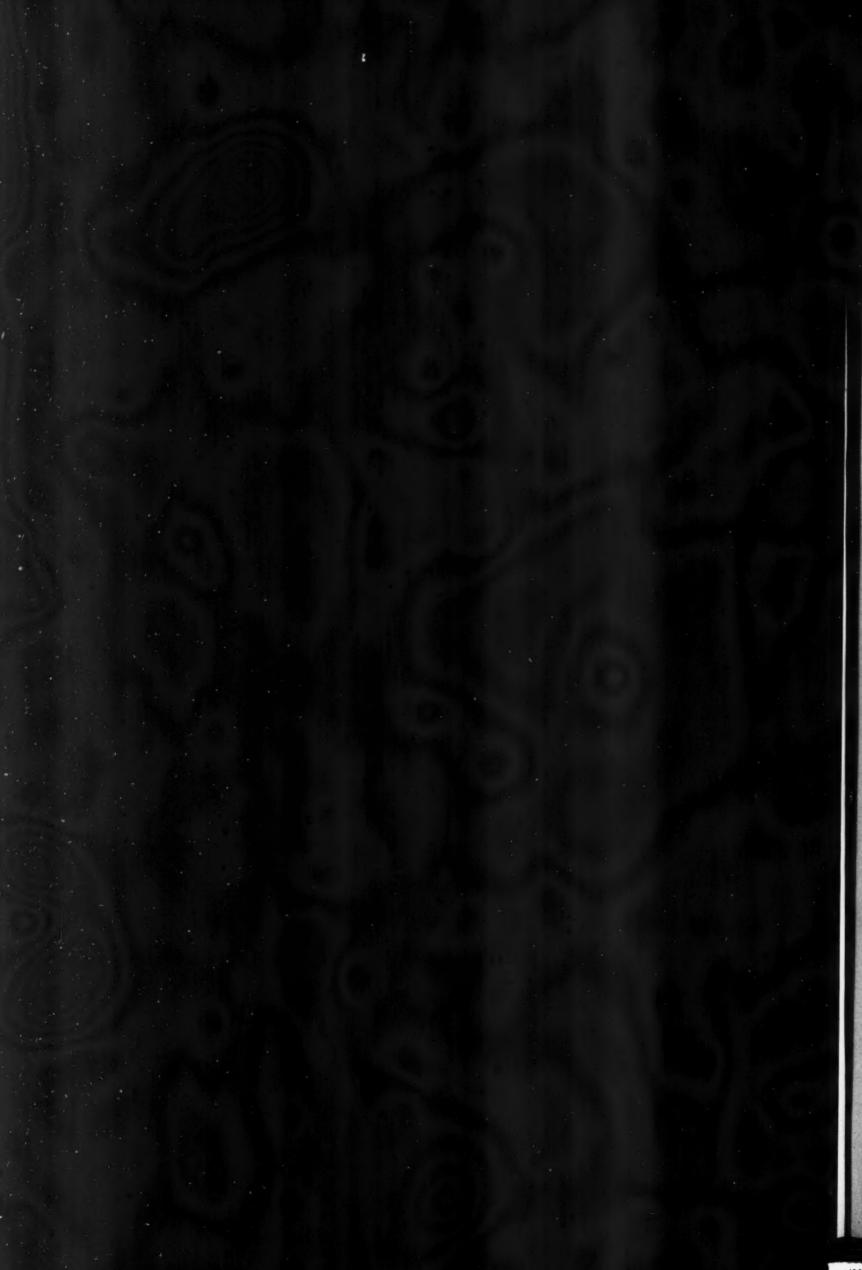
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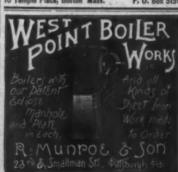
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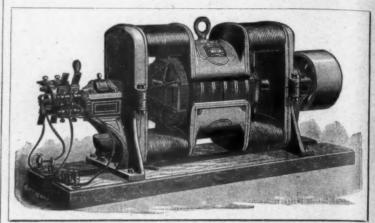
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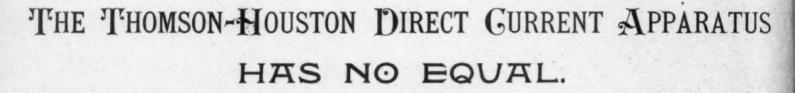
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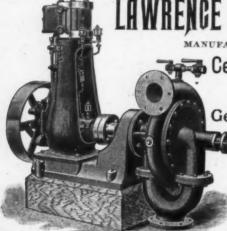
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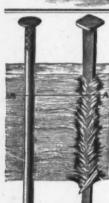


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